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VCR



VR 710/07

VR 765/07

VR 766/07

Operating instructions



Let's make things better.



PHILIPS

Remote control

You will find explanations for the controls and the displays on your video recorder on the second to last page of these operating instructions.



TIP



TAPE MANAGER STANDBY/ON

- Activate / deactivate Tape Manager
- Switch set on / off
- Interrupt function
- Interrupt programmed recording
- select picture adjustment
- Eject inserted cassette
- Display picture position
- Toggle between TV reception and video recorder reception

SMART EJECT COUNTER MONITOR

0-9

TURBO TIMER TIMER


- Enter data
- Select programme number
- Programme Turbo Timer recordings
- Programme recordings
- Check / change recordings
- Delete recordings
- Switch main menu on / off
- Store
- Confirm
- Select next / previous menu point
- Select next / previous programme number
- Select entry field

MENU OK

↑ P+ / ↓ P-

← / →

TV functions



+  -
CL
SELECT
+ TV -

- Increase / reduce TV volume
- Delete TV channel / entry
- Select function
- Select next / previous programme number



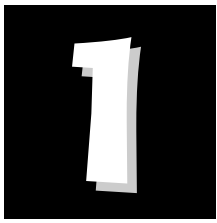
PLAY 


STOP 
RECORD/OTR 
INDEX 
STILL 

- In STOP or STANDBY mode: Rewind
- In playback mode: Fast reverse
- Play back recorded cassette
- In STOP or STANDBY mode: Wind forward
- In playback mode: Fast forward
- Stop tape
- Start manual recording
- With  or : Search for index marking
- Stop tape and show still picture

Accessories

- ✓ Operating instructions
- ✓ Quick Start Guide
- ✓ Remote control
- ✓ Batteries
- ✓ Aerial cable
- ✓ Mains cable
- ✓ Scart cable



Introduction



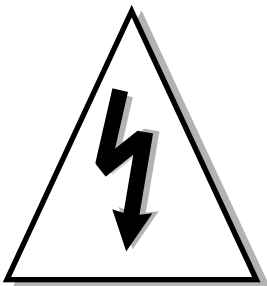
Welcome to the family of owners of Philips VHS video recorders.

Thank you for choosing to buy our product. Please wait at least three hours after transporting the appliance before starting installation. The set needs this time in order to become acclimatised to its new environment (temperature, air humidity, etc.).

Your Philips Team hopes that you will enjoy using your new video recorder!

This product complies with the requirements of Directive 73/23/EEC + 89/336/EEC + 93/68 EEC.

Important notes for operation



You should not under any circumstances open the set yourself. You would expose yourself to the risk of an electric shock from the hazardous high voltage inside.

When the appliance is connected to the power supply, there are some components which are constantly operational. To switch off the video recorder completely, you must disconnect it from the power supply.

The video recorder does not contain any components that can be repaired by the customer.



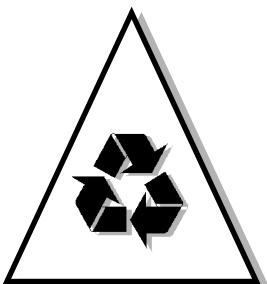
Make sure that air can circulate freely through the ventilation slots on the video recorder.

Make sure that no objects or liquids enter the video recorder. If liquid is spilt into it, disconnect the video recorder immediately from the power supply and call the After Sales Service for advice.

The video recorder should not be used immediately after transportation from a cold to a hot area or vice versa, or in conditions of extreme humidity.

These operating instructions have been printed on non-polluting paper.

Please deposit old batteries at the relevant collection points.



Please make use of the facilities available in your country for disposing of the video recorder packaging in a way that helps to protect the environment.

This electronic device contains many materials which can be recycled. Please enquire about the possibilities for recycling your old set.

The most important functions of your new video recorder



Your Philips video recorder can be used, not only for recording and playing back VHS cassettes, but it also has a whole range of special functions which will make day-to-day use of your new video recorder easier for you.



Plug in and off you go - getting started with your new video recorder just couldn't be simpler. Once you have connected the cables, you will immediately see text on the screen which will assist you at all stages of operation.



The function "Smart Picture" gives you the option of activating pre-defined picture settings quickly and easily at the touch of a button.



Using the enclosed multi-code remote control you can, if you wish, control the main functions of your TV set - even if your TV is not made by Philips.




The simple programming system for video recorders revolutionized the video world when it was introduced. Instead of having to enter many different details (date, starting time, finish time, programme), which was often tiresome and liable to errors, all you have to do is enter a number, up to nine digits long, which can be found in any TV programme listing. Once you have done that, all the relevant details for the recording are stored.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.



Recordings can be controlled, not only by the video recorder itself but also by a connected satellite receiver. In this way the programme from various TV stations can be recorded one after another without the need to set the corresponding channels on the satellite receiver manually. Requirement: Your satellite receiver must support this function.

So that you can identify your machine in the event of theft, enter the serial number (PROD. NO) here. You will find it on the type plate on the back of the set.

MODEL NO.	VR 710/07 VR 765/07 VR 766/07	PHILIPS 
PROD. NO.	

If you have any problems using the video recorder, please read the corresponding chapters in this instruction manual. If you have any questions, there is also a customer support service available in your country. You can find the telephone number in the guarantee information enclosed in the packaging. Please have your model number (MODEL NO.) and production number (PROD. NO.) ready.

Important information for customers in Great Britain

This set is fitted with an approved moulded 13 amp plug. To change the fuse in this plug or to attach a different plug, please proceed as follows:

- 1 Take off the fuse cover and remove the old fuse
- 2 Insert a new fuse. Suitable fuses are those of the type BS 1362 3A, A.S.T.A. standard or BSI standard
- 3 Close the fuse cover

If the attached plug does not meet your requirements, you can cut it off and replace it with a suitable plug. Please observe the following conditions:

If your new plug uses a built-in fuse, this should be a 3A fuse.

If your new plug does not contain a built-in fuse, please do not use any fuses in your fusebox with a rating of more than 5A.

Please destroy the old, cut-off plug so that it cannot be used elsewhere.

- 4 Connect the blue cable (neutral "N") to the terminal in the plug which is marked with the letter "N" or coloured black
- 5 Connect the brown cable (live, "L") to the terminal in the plug which is marked with the letter "L" or coloured red
- 6 Do not in any circumstances connect either of the two cables to the terminal in the plug which is marked with the letter "E", the symbol "⏚" or coloured green or green / yellow

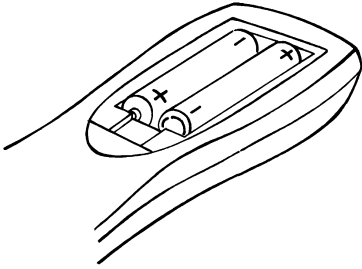


Before you refit the plug cover, make sure, that the grip at the bottom of the plug is clamped over the plastic cover of the lead, not just over the two wires.

2

Connecting the video recorder

Preparing the remote control for operation



- 1 Take the remote control of the video recorder and the enclosed batteries (2 batteries)
- 2 Open the battery compartment, insert the batteries as shown and then close the battery compartment. The remote control is now ready to use

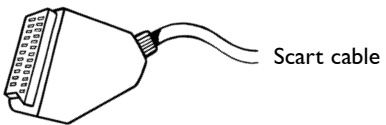
Connecting to a TV set with a scart socket



Aerial cable



Mains cable



Scart cable



- 1 Have the following cables ready: An aerial cable (enclosed), a mains cable (enclosed) and a scart cable (enclosed)

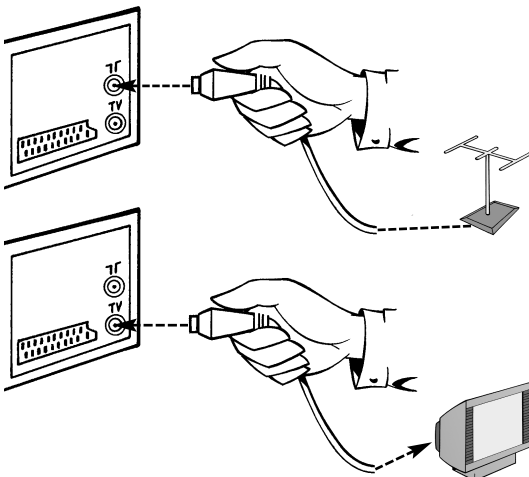
What is a scart cable?

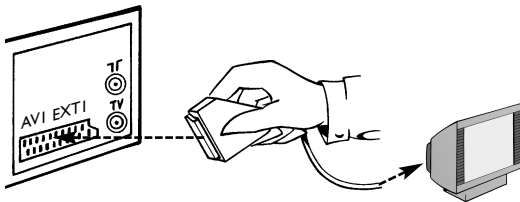
The scart or Euro-AV cable serves as the universal recording and playback connector for picture-, sound- and control signals. With this type of connection, there is practically no loss of quality during the signal transfer. We recommend that you use a scart cable when using this video recorder.



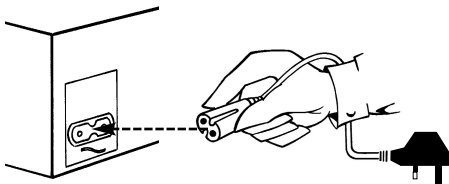
PARDON?

- 2 Switch off your TV set
- 3 Remove the aerial cable plug from the back of your TV set and insert it into the aerial socket  on the back of the video recorder
- 4 Take the enclosed aerial cable and connect the appropriate end to the aerial socket of your TV set and to the TV socket  on the back of the video recorder

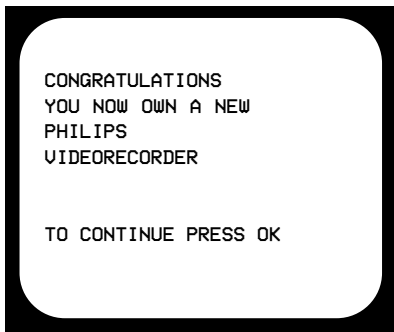




- 5** Take a scart cable and connect one end to the scart socket on the back of your TV set and the other to the scart socket **AVI EXT I** on the back of the video recorder



- 6** Take the enclosed mains cable and connect the appropriate end to the mains socket \sim on the back of the video recorder and the other to the nearest free socket



- 7** Your set should automatically switch over to the programme number allocated to video recorder operation (usually: EXT, 0 or AV). You will see the welcome screen.

X I can not see the welcome screen, only the message "EASYLINK IS LOADING DATA FROM TV"

- ✓** Congratulations! The TV set supports the "Easylink" function. It automatically sends the settings for the available TV channels and the time and date information straight to the video recorder. As soon as the transfer is complete, the current settings for year, month, date and time appear on the screen. Correct and/or confirm the settings with the arrow buttons $\uparrow, \downarrow, \leftarrow$ and/or \rightarrow the number buttons 0-9 and confirm with **OK**.



PROBLEM

X My screen is still blank

- ✓** If a TV set receives a signal via the scart socket, it usually switches automatically to the corresponding programme number. This automatic function might be adversely affected. Please switch manually to the corresponding programme number (usually: EXT, 0 or AV)
- ✓** Check the cable connections



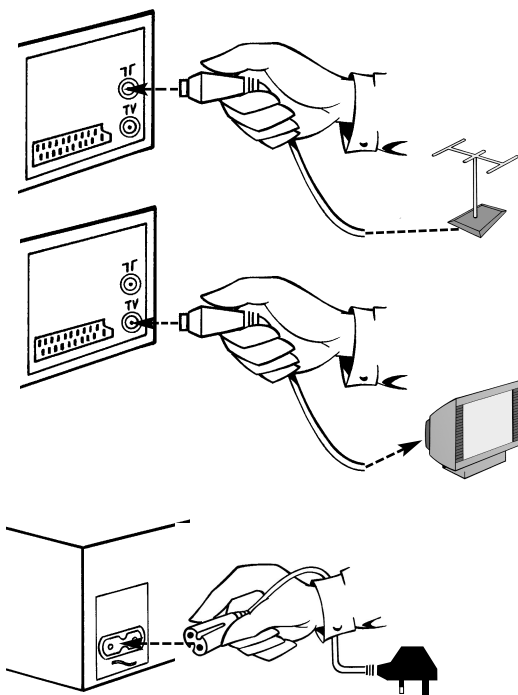
PROBLEM

- 8** You can find more details in the chapter "Initial Installation"

Connecting to a TV set without a scart socket



- 1** Have the following cables (provided with your new video recorder) ready: An aerial cable and a mains cable
- 2** Switch off your TV set



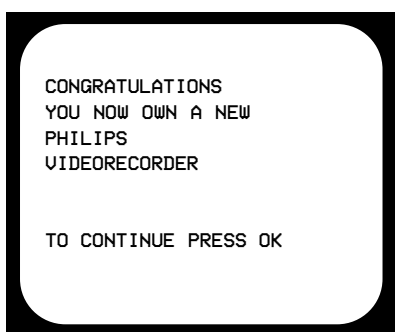
3 Remove the aerial cable plug from the back of your TV set and insert it into the aerial socket **TV** on the back of the video recorder

4 Take the enclosed aerial cable and connect the appropriate end to the aerial socket of your TV set and to the TV socket **TV** on the back of the video recorder

5 Take the enclosed mains cable and connect the appropriate ends to the mains socket **~** on the back of the video recorder and the other to the nearest free socket

6 Switch on your TV set and select on your TV set the programme number which will in future be used for operation with the video recorder. If necessary, you should refer to the instructions for your TV set for assistance.


7 Change the settings of this programme number on your TV set until you see the adjacent welcome screen clearly and in colour on the screen



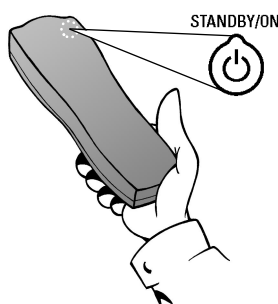
X There is no test image

✓ Your video recorder “broadcasts” on the frequency 583MHz (CH35) in the UHF range (ultra highfrequency). Repeat the matching of the selected programme numbers on the TV set.

✓ Check the cable connections



PROBLEM

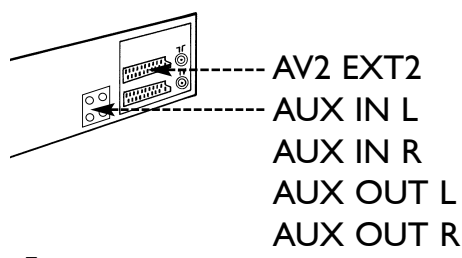


8 You can find more details in the chapter “Initial Installation”

Connecting additional devices

Additional devices, such as a decoder, camcorder, satellite receiver, etc., can be connected to the scart socket **AV2 EXT2** on the back of the video recorder. You will need a scart cable for this (available from specialist stores).

There are two audio output sockets - **AUX OUT L R** - and two input sockets - **AUX IN L R** - on the back of the video recorder. You can connect a stereo system to these.

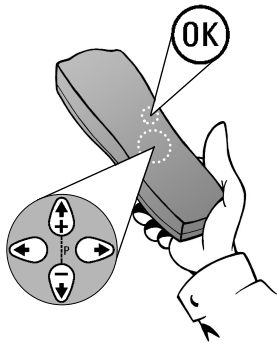


3

Initial installation

Setting TV channels, date and time for the first time

If your TV set supports the Easylink function and you have already corrected and/or confirmed the settings for year, month, date and time, you can skip this section. Your video recorder has already stored all the necessary details. Please continue by reading the section "Searching for a TV channel manually".



- 1 Using the **OK** button activate the automatic initial installation

"Aim" correctly

Always point the remote control at the video recorder and not at the TV set.



TIP



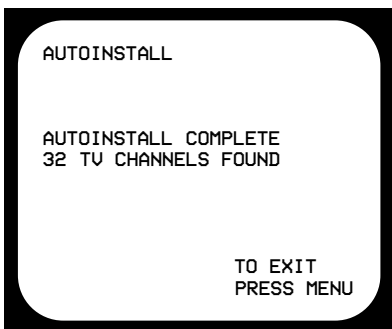
- 2 The set seeks out and stores all available TV channels as well as time and date. This procedure may take several minutes

The Teletext clock resets automatically

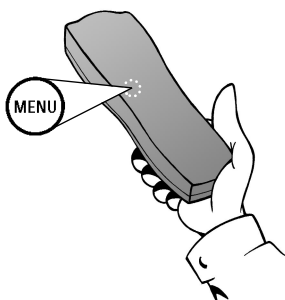
If a TV channel which has Teletext is stored as programme number P01, the video recorder automatically takes in the date and time from the text function. The change from summer to winter time and vice versa should also occur automatically.



TIP



- 3 The initial setting of channel, date and time is completed.



X The time is not shown in the display of the video recorder ("--:") or is shown incorrectly

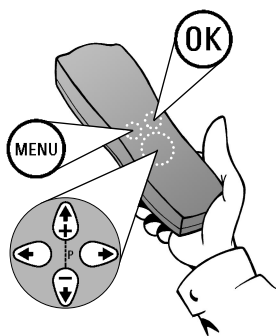
✓ While initial installation was going on, the set was unable to recognise the time. Please read the paragraph in Section 4 "Setting the time and date" to correct this problem



PROBLEM

Searching for a TV channel manually

In exceptional cases, it may happen that on initial installation the set does not find all the available TV channels. In this case, the missing TV channels must be searched for and stored manually. If your set supports the Easylink function, you can start the automatic transfer of channel data by means of the following steps.



MAIN MENU

→ PLAY FUNCTIONS →
 ↓ RECORDING FUNCTIONS
 SPECIAL SETTINGS
 INSTALLATION

TO EXIT
 PRESS MENU

MAIN MENU INSTALLATION

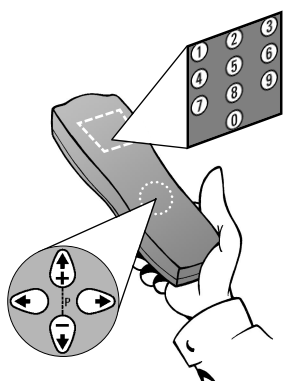
→ AUTOINSTALL →
 ↓ FOLLOW TV
 MANUAL SEARCH
 TV CHANNEL ALLOCATION
 OPTIMIZE MODULATOR
 TIME/DATE

TO EXIT
 PRESS MENU

INSTALLATION MANUAL SEARCH

→ CHANNEL/FREQ. ← FREQ. →
 ↓ ENTRY/SEARCH 543.3
 PROGRAMME NUMBER 01
 TV CHANNEL NAME BBC1
 DECODER OFF
 FINE TUNING 0

TO EXIT
 PRESS MENU



- 1 Switch on the TV set and - if necessary - select the programme number set for video recorder operation
- 2 Press the **MENU** button on the remote control. The on-screen menu appears
- 3 Use **↓P-** or **↑P+** to select the option "INSTALLATION" and confirm with button **→**
- 4 Use **↓P-** or **↑P+** to select the option "MANUAL SEARCH" (manual channel search) and confirm with button **→**
- 5 Use **↓P-** or **↑P+** to select the option "CHANNEL/FREQ.," and use **→** or **←** to select the type of display desired

What is hidden behind the settings?

"FREQ.": The frequency display
 "CH": The channel display
 "S-CH": Entering a special channel

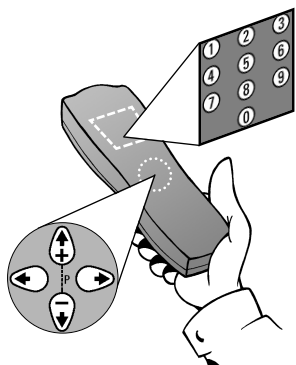
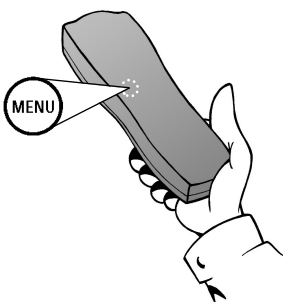
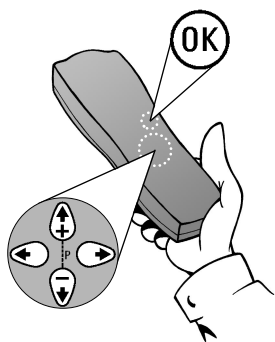
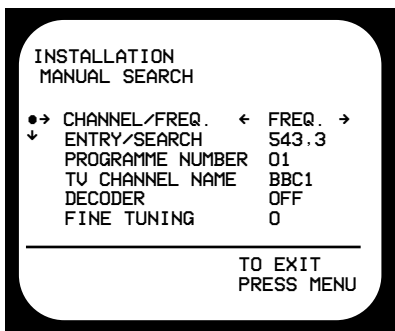


What is a channel, or a special channel?

TV channels are transmitted on precisely-defined frequency ranges. These ranges are also referred to as "channels". Each channel has its own TV station allocated to it. Most cable and satellite TV providers supply tables of channel allocations. Special channels (hyperband channels) are transmitted on special frequencies.



- 6 If you already know the frequency or the channel of the TV station you are searching for, use **↓P-** or **↑P+** to select the option "ENTRY/SEARCH" and enter the frequency or the channel with the number buttons **0-9**



X I don't know the channels for my TV stations

- ✓ No problem. Hold down the button → to start the automatic channel search. A changing channel number will appear on-screen. Continue the automatic channel search until you have found the desired TV station



PROBLEM

- 7** Use ↓P- or ↑P+ to select the option "PROGRAMME NUMBER" and use → or ← to select the programme position where you wish to store the TV station you have found

X I cannot find the TV channels from my satellite receiver

- ✓ These programs do not have to be stored as actual TV channels. On your video recorder, select programme number "E2". Individual TV channels must be selected on the actual satellite receiver itself



PROBLEM

- 8** Store the TV channel you have found with the button **OK**. The screen will show "STORED"
- 9** Finish manual sorting of TV channels by pressing the **MENU** button or return to step **6** to allocate additional TV channels

Allocating decoder

If your TV set supports the Easylink function you must allocate the decoder directly to the TV set. If necessary, you should refer to the instructions for your TV set for assistance. If your TV set does not support the Easylink function you must allocate the decoder on the video recorder.

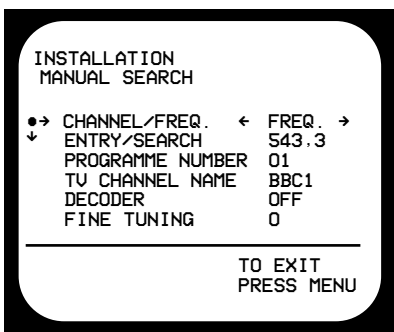
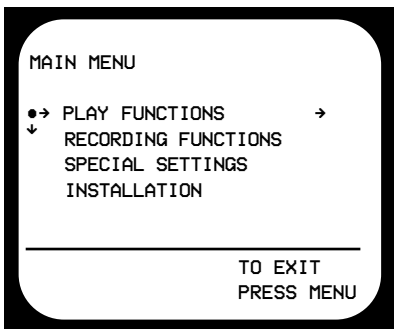
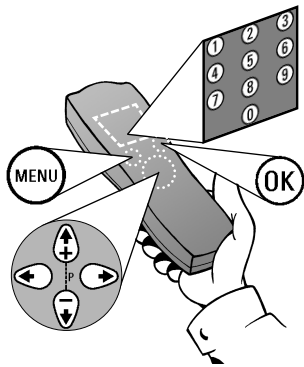
- 1** Use ↓P- and ↑P+ or the number keys 0-9 to select the TV channel, which will in future be automatically decoded by your decoder

What is a decoder?

Like a deciphering machine, a decoder (available in TV and video stores) deciphers the TV channels for which additional charges must be paid. Without the appropriate decoder, you will receive these TV channels distorted.



PARDON?



- 2 Press the **MENU** button. The on-screen menu appears
- 3 Use **↓P-** or **↑P+** to select the option “INSTALLATION” and confirm with button **→**
- 4 Use **↓P-** or **↑P+** to select the option “MANUAL SEARCH” (manual channel search) and confirm with button **→**
- 5 Use **↓P-** or **↑P+** to select the option “DECODER” and use **→** or **←** to select the setting “ON” (Decoder activated) or “OFF” (Decoder deactivated)
- 6 Confirm with **OK** (screen will show “STORED”) and leave the on-screen menu with the **MENU** button

Check decoder allocation at a glance

There is no need to call up the on-screen menu to check to which TV channel on the video recorder a decoder is allocated. Simply use **↓P-** and **↑P+** to select a TV channel. If “DEC” appears in the display, a decoder is allocated to this channel.

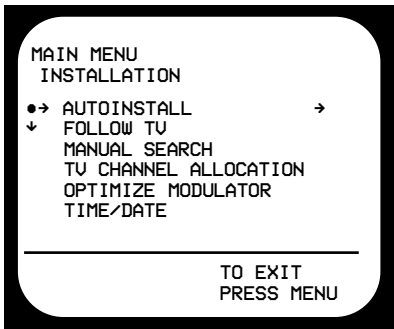
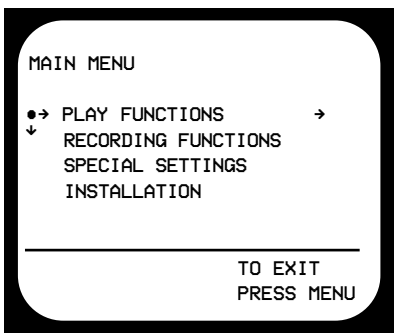
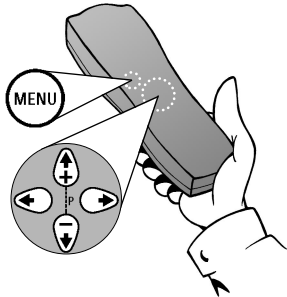


Using a satellite receiver

Those TV channels which are received via a satellite receiver connected (to the scart socket **AV2 EXT2**) can be viewed on the video recorder on programme number “**££**”. On the remote control press the number button **0** and then the button **↓P-** to select this programme number. The TV channels of the satellite receiver are selected not on the video recorder itself, but directly on the satellite receiver.

4

Settings



Searching for a TV channel automatically

On initial installation, the video recorder performs an automatic channel search. If the channel assignments of your cable or satellite TV provider change or if you are reinstalling the video recorder, e.g. after moving house, you can start this procedure again. The video recorder finds all the available TV channels and stores the new settings. If your set supports the Easylink function, you can start the automatic transfer of channel data by means of the following steps.

1 Switch on the TV set and - if necessary - select the programme number set for video recorder operation

2 Press the **MENU** button on the remote control. The on-screen menu appears

What is an on-screen menu?

The on-screen menu takes the mystery out of using your new video recorder. All settings and recording steps can be done easily via the on-screen menu by following the corresponding instructions on the screen.



PARDON?

3 Use **↓P-** or **↑P+** to select the option "INSTALLATION" and confirm with **→**

4 Use **↓P-** or **↑P+** to select the option "AUTOINSTALL" and confirm with **→**

Sequence of TV channels

TV channels are stored in the following sequence: BBC1, BBC2, ITC, CH 4, CH 5, others.



TIP

5 The set seeks out and stores all available TV channels. This procedure may take several minutes.

6 Finish with the **MENU** button

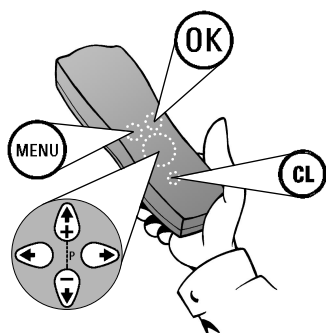
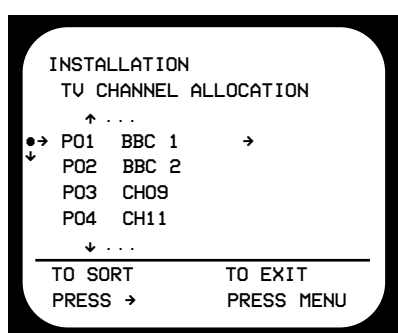
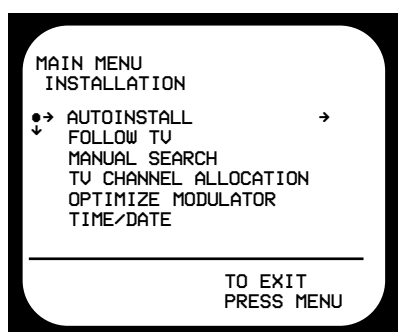
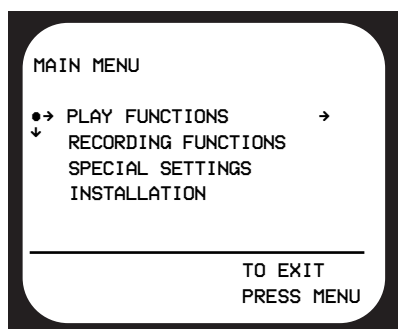
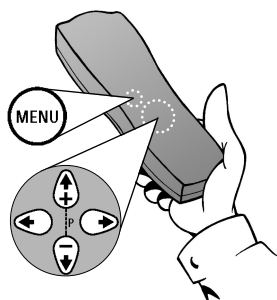
X The video recorder is not finding all the TV channels

✓ In exceptional cases, it may happen that the set does not find all the available TV channels. In this case, the missing TV channels must be searched for and stored manually. You can look up how to do this in the chapter "Initial installation" ("Searching for a TV channel manually").



PROBLEM

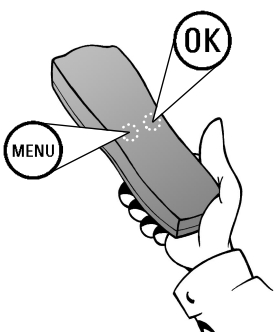
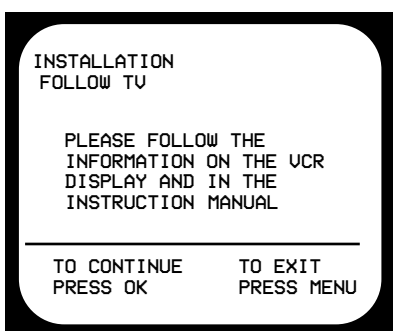
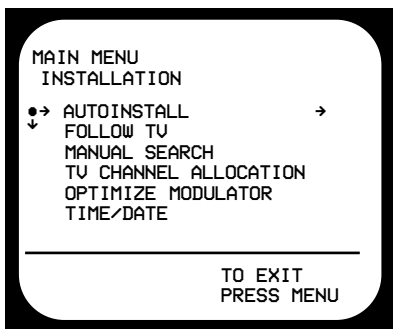
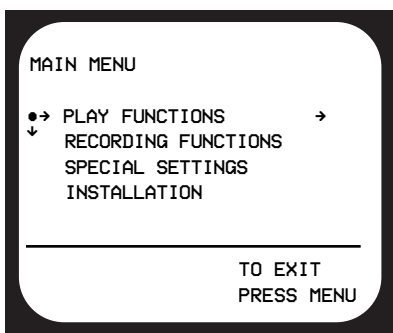
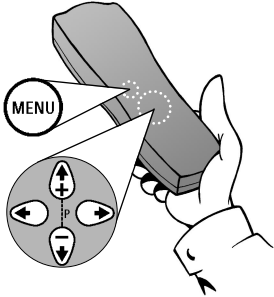
Sorting and clearing of TV channels manually



After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions of the video recorder. You can use this function to individually sort the TV channels found or to delete unwanted TV channels or those with poor reception. If your TV set supports the Easylink function, you will not need to rearrange the TV channels later. The sequence corresponds to the channel allocation of your TV set.

- 1 Switch on the TV set and - if necessary - select the programme number set for video recorder operation
- 2 Press the **MENU** button on the remote control. The on-screen menu appears
- 3 Use **↓P-** or **↑P+** to select the option "INSTALLATION" and confirm with **→**
- 4 Use **↓P-** or **↑P+** to select the option "TV CHANNEL ALLOCATION" and confirm with **→**
- 5 Use the buttons **↓P-** or **↑P+** to select the TV channel which is to be allocated to a programme position and confirm with **→**
- 6 **Delete:** Delete the TV channel which has been set with **CL**
Allocation: Allocate the selected TV channels with the buttons **↓P-** or **↑P+** to the desired programme position and confirm with **←**
- 7 Repeat the steps 5 and 6, to allocate additional TV channels or to delete additional unwanted TV channels
- 8 Use **OK** to store (screen will show "STORED") and finish the manual sorting/clearing of TV channels with the **MENU** button

Sorting TV channels automatically (Follow TV)



After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions of the video recorder. With this function, the video recorder arranges the stored TV channels in the same sequence as on the TV set. If your TV set supports the Easylink function, you will not need to rearrange the TV channels later. The sequence corresponds to the channel allocation of your TV set.

How does "Follow TV" function?

The video recorder compares the TV channels stored on the TV set at programme position $\square 1$ with its own programme position memory. If it finds a match, it also allocates the corresponding TV channel to programme position $\square 1$.



PARDON?

- 1 Switch on the TV set and - if necessary - select the programme number set for video recorder operation
- 2 Press the **MENU** button on the remote control. The on-screen menu appears
- 3 Use $\downarrow P-$ or $\uparrow P+$ to select the option "INSTALLATION" and confirm with \rightarrow
- 4 Use $\downarrow P-$ or $\uparrow P+$ to select the option "FOLLOW TV" and confirm with \rightarrow
- 5 Press **OK**. The display will show "TV $\square 1$ ".
- 6 On the TV set select the corresponding programme number (e. g. " $\square 1$ ") and confirm with **OK** on the remote control of the video recorder.
- 7 The video recorder stores the TV channel on the programme number " $\square 1$ ". The display will show "TV $\square 2$ ". Repeat step 6 until all available TV channels are allocated. If you have selected a wrong TV channel, press \leftarrow to go back one step

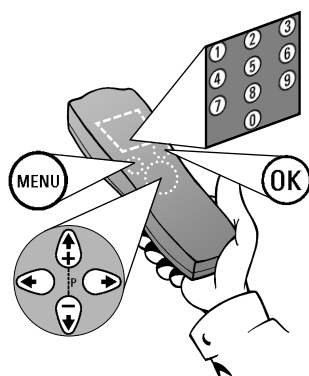
X The display shows "N \square TV"

✓ Unfortunately your TV set does not support this function. Please read "Sorting / deleting channels manually".



PROBLEM

- 8 Finish with the **MENU** button



Changing the time and date

If the display shows an incorrect time or “---:---”, the time and date must be set manually.

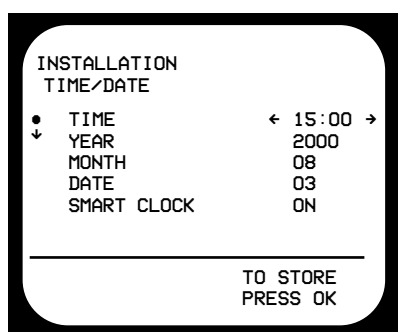
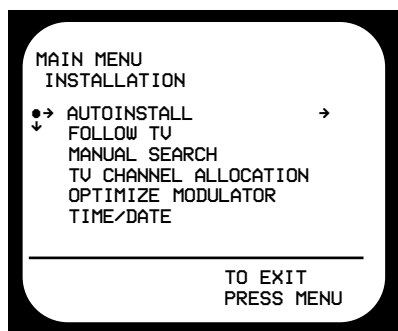
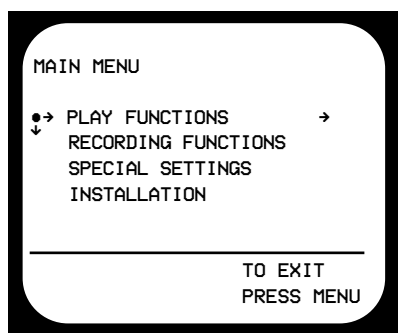
- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “INSTALLATION” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “TIME/DATE” and confirm with **→**

Enter the values correctly

Numbers less than 10 must be entered with an additional “0”. For “9” thus “09” should be entered.



- 4 Use **↓P-** or **↑P+** to select the option “TIME” and - if the setting displayed is incorrect - enter the current time, with the number buttons **0-9** or with **→** or **←**
- 5 Use **↓P-** or **↑P+** to select the option “YEAR” and - if the displayed setting is incorrect - enter the current year with the number buttons **0-9** or with **→** or **←**
- 6 Use **↓P-** or **↑P+** to select the option “MONTH” and - if the displayed setting is incorrect - enter the current month with the number buttons **0-9** or with **→** or **←**
- 7 Use **↓P-** or **↑P+** to select the option “DATE” and - if the displayed setting is incorrect - enter the current calendar date with the number buttons **0-9** or with **→** or **←**
- 8 Check the settings displayed for year, month, date and time and store them by pressing **OK**. The screen will show “STORED”
- 9 Leave the on-screen menu with the **MENU** button






Operating instructions

General information

Switching on

If the video recorder is in standby mode, it can be switched on either by pressing the Standby button , by pressing one of the number buttons **0-9** or by inserting a cassette.

Automatic switch-off

If the video recorder is not used for several minutes, it switches itself off automatically. This function can be deactivated (e.g. if you want to use the video recorder as a TV receiver). You can find out more about this in the chapter "Other functions" ("Adjusting automatic switch off").


Energy consumption

The video recorder should always be connected to the mains so as not to affect programmed recordings and use of the TV set. Power consumption (in energy saving mode) is less than 4W.

Saving energy

In standby mode, the display of the video recorder shows the current time. This display can be deactivated manually, in order to reduce power consumption to a minimum in standby mode. You can find the necessary steps in the section "Other functions" ("Energy-saving mode").

Emergency exit

The video recorder and the remote control have the option of an "Emergency exit". You can use the Standby button  to interrupt any step during use. But even without an "emergency brake" your new video recorder is safe: there is no risk whatsoever of damaging the set by performing user steps incorrectly.


In the event of a power cut

Channel data are stored for around 1 year; time and timer data remain in the memory of the video recorder for around 7 hours.

Navigation in the main menu

You can check and / or change many functions and settings of your video recorder via the main menu. The individual functions are selected as follows via the on-screen menu of the video recorder



- Call up: **MENU**
- Select: **↑ P+ and ↓ P- or →**
- Confirm: **OK**
- Enter: **0-9 or → and ←**
- Interrupt: **STANDBY/ON **
- Abandon: **MENU**

6

Tape Manager (TM)

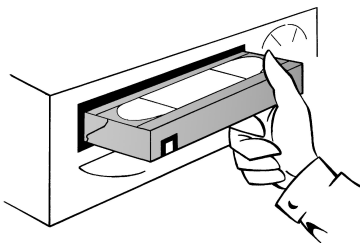
Adding a cassette to the Tape Manager

What is a Tape Manager (TM)?

This databank, which is integrated in your video recorder, makes a note of all recordings performed with this set. This means that by simply pressing a button, you can not only access an overview of your entire video collection, you will also know which film is on which cassette or how many minutes of this cassette have not yet been recorded on. And: At the touch of a button, the video recorder automatically winds backward or forwards to the start of a recording or to a blank part of the tape.



PARDON?



- 1 Switch on the TV set and - if necessary - select the programme number set for video recorder operation
- 2 Insert a blank cassette which is ready for recording

Never use cassettes which have already been recorded on.

Warning: Only blank cassettes or those already included in the Tape Manager can be managed by the Tape Manager. Recordings made by other video recorders (without the Tape Manager function) will not be recognised by the Tape Manager.



TIP

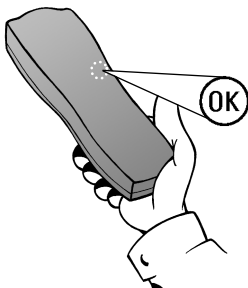
TAPE MANAGER - TM

THIS CASSETTE IS EMPTY.

IF YOU WANT TO ADD
THIS CASSETTE TO THE
TAPE MANAGER MEMORY
PRESS OK

TO EXIT PRESS TM TO CONFIRM
PRESS OK

- 3 The inserted cassette will be searched for existing Tape Manager titles. The screen will show "CHECKING CASSETTE"
- 4 The screen will show the message "THIS CASSETTE IS EMPTY".



X I can see a cassette number and an overview of the recordings on it.

✓ You have inserted a cassette which has already been included in the Tape Manager and contains a recording. If there is still enough blank playing time on it, you can use this cassette for the current recording.

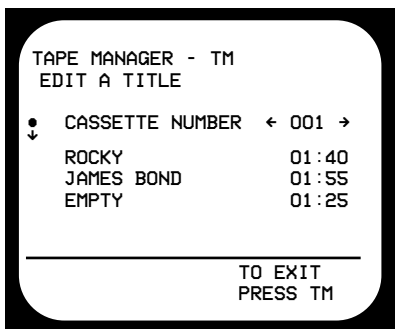
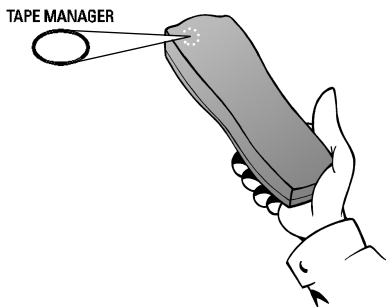
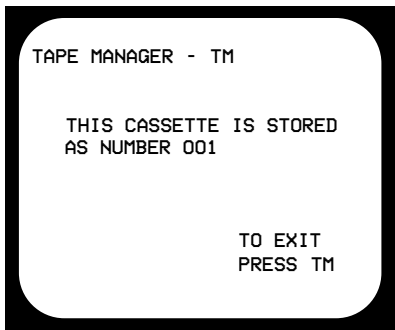
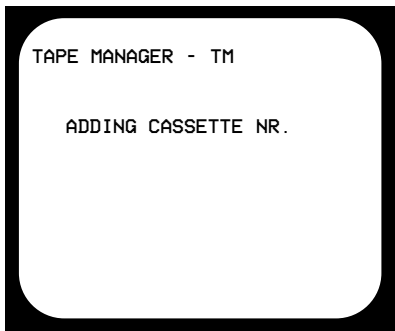
X I cannot see any information about the content of the inserted cassette

✓ Then it is a cassette which has been recorded by a different video recorder. This cassette cannot be included in the memory of the Tape Manager.



PROBLEM

- 5 Press OK to allocate this cassette to the Tape Manager.



- 6 The cassette will be assigned a number. Please write this number on the cassette accordingly. The Tape Manager may ask you, when searching for blank parts of a tape or for existing recordings, to insert the cassette with this number
- 7 The cassette is ejected. The video recorder will immediately recognise that this cassette is included in the Tape Manager. In future, after insertion, the number and cassette content will automatically be displayed on the screen
- 8 Finish with the button **TAPE MANAGER**

Tape Manager can manage up to 150 cassettes

Up to 150 cassettes or up to 210 recording titles can be managed in the memory of the Tape Manager.



Processing title of recording

What is a recording title?

Each cassette entered in the Tape Manager has a "List of contents" that displays all the recordings on it. It shows the recording title and the duration of the corresponding recording. Some TV stations transmit the title of a programme. In this case, the title will be included automatically (e.g. "ROCKY"). If the title is not transmitted, only the date and time of the recording will appear in the list of contents. The title of the recording can only be / changed after the completed recording has been entered. To do this, it is not necessary to insert the corresponding cassette.

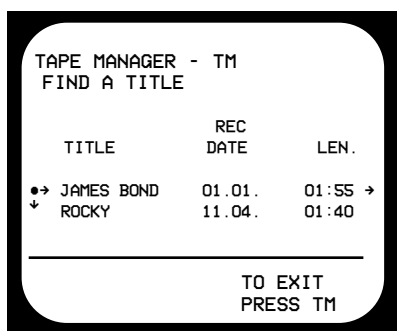
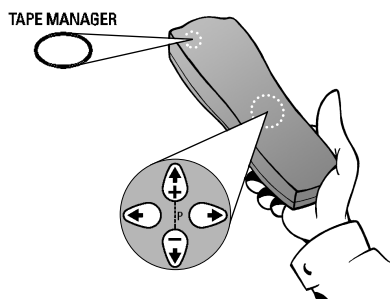
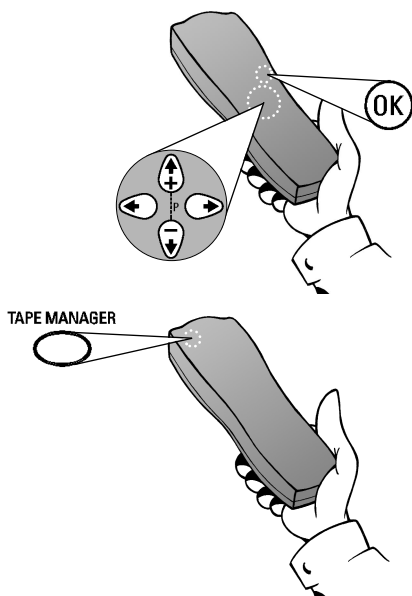


- 1 On the remote control, press the button **TAPE MANAGER**
- 2 Use ↓P- or ↑P+ to select the option "EDIT A TITLE" and confirm with →
- 3 The list of contents of a cassette included in the Tape Manager will be shown on the screen

Display correct list of contents

If there is a cassette in the video recorder which is included in the Tape Manager, the list of contents of this cassette will be displayed automatically.





- 4 Select - if necessary - using → or ← the number of the cassette whose list of contents is to be revised
- 5 Use ↓P- or ↑P+ to select the title of the recording which is to be revised, and confirm with →
- 6 Use → or ← to select the letters/ digits to be altered and change them with the buttons ↓P- or ↑P+
- 7 Store, once all changes have been made, using the button OK
- 8 Select the number of a cassette with → or ←, to revise additional recording titles, or finish with the button **TAPE MANAGER**

Searching for recording title

- 1 On the remote control, press the button **TAPE MANAGER**
- 2 Use ↓P- or ↑P+ to select the option "FIND A TITLE" and confirm with →
- 3 A list of all recording titles included in the Tape Manager will be displayed
- 4 Use ↓P- or ↑P+ to select the recording title which you want to play back, and confirm with →
- 5 The video recorder winds to the start of the recording selected and starts playback automatically

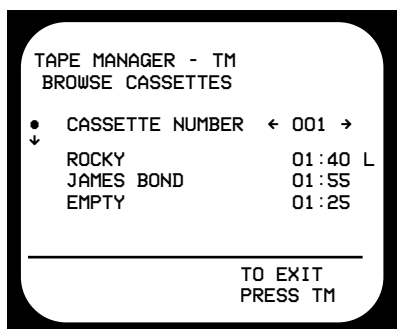
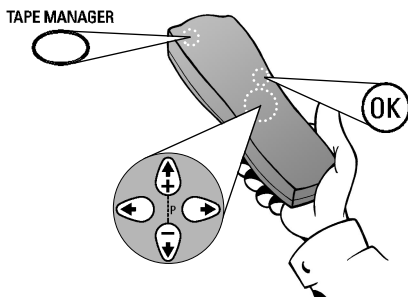
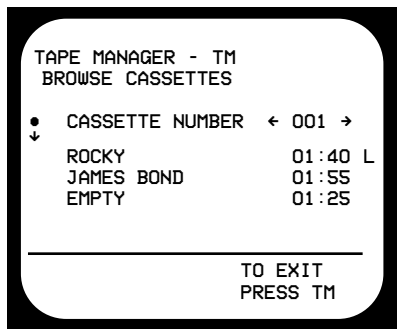
✗ I can see the message "INSERT CASSETTE NUMBER XXXX"

✓ The recording title selected is on the Tape Manager cassette with the number stated ("XXXX"). Please insert the corresponding cassette. The video recorder winds to the start of the selected recording and automatically starts playback.



PROBLEM

- 6 If you wish to cancel the operation press the button **TAPE MANAGER**



Displaying contents of cassette


- 1 On the remote control, press the button **TAPE MANAGER**
- 2 Use **↓P-** or **↑P+** to select the option **“BROWSE CASSETTES”** and confirm with **→**
- 3 The list of contents of a cassette included in the Tape Manager will be shown on the screen

✗ I can see the text **“THIS CASSETTE”** and **“TM-MEMORY”**

✓ You have inserted a cassette which is not included in the Tape Manager. Use **↓P-** or **↑P+** to select ...

„THIS CASSETTE“ Search the inserted cassette. Confirm with **→** and continue with step **5**.

“TM-MEMORY” Search all cassettes included in Tape Manager. Confirm with **→** and continue with step **4**.



PROBLEM


- 4 If necessary, you can use **→** or **←** to page through the catalogue of cassettes included in the Tape Manager
 - 5 **Playback:** Use **↓P-** or **↑P+** to select the corresponding recording title and confirm with **→**. The video recorder winds to the start of the recording selected and starts playback automatically
- Cancel:** Press **TAPE MANAGER**

Searching for blank space on tape

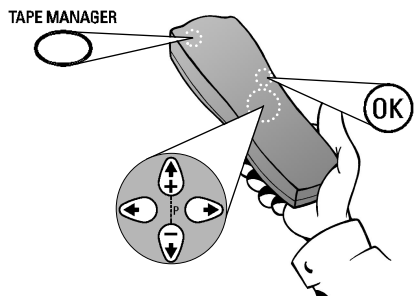
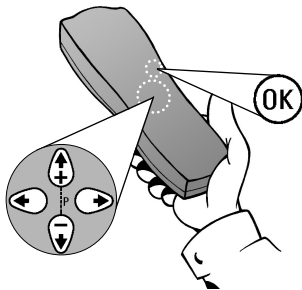
- 1 On the remote control, press **TAPE MANAGER**
- 2 Use **↓P-** or **↑P+** to select the option **“BROWSE CASSETTES”** and confirm with **→**
- 3 The list of contents of a cassette included in the Tape Manager will be shown on the screen

✗ I can see **“THIS CASSETTE”** and **“TM-MEMORY”**

✓ You have inserted a cassette which is not included in the Tape Manager. Use **↓P-** or **↑P+** to select „THIS CASSETTE“ or **“TM-MEMORY”** and confirm with **→**.



PROBLEM



- 4 If necessary, use → or ← to select the number of the cassette which has enough remaining playing time (“EMPTY”)
- 5 Use ↓P- or ↑P+ to select the recording title “EMPTY” and confirm with OK
- 6 The video recorder winds to the start of the blank space on the tape and stops the tape

✗ I can see the message
“INSERT CASSETTE NUMBER XXXX”

✓ The blank space selected on the tape is in the Tape Manager cassette with the number stated (“XXX”). Please insert the corresponding cassette. The video recorder winds to the start of the blank space on the tape and stops the tape.



PROBLEM

Removing cassette from Tape Manager

Cassettes included in the Tape Manager can be removed from the memory (e. g. to create space for new cassettes). To do this, the corresponding cassette does not have to be in the video recorder.

- 1 On the remote control, press the button **TAPE MANAGER**
- 2 Use ↓P- oder ↑P+ to select the option “REMOVE A CASSETTE NR.” and confirm with →
- 3 The list of contents of a cassette included in the Tape Manager will be shown on the screen
- 4 Use → or ← to select the cassette number to be removed from the memory of the Tape Manager and confirm with OK
- 5 The screen will show “CASSETTE NUMBER XXX WILL BE REMOVED FROM THE MEMORY”. Confirm with OK or interrupt with the button **TAPE MANAGER**

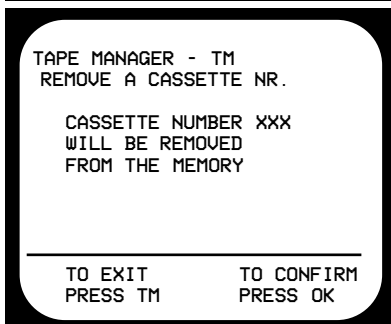
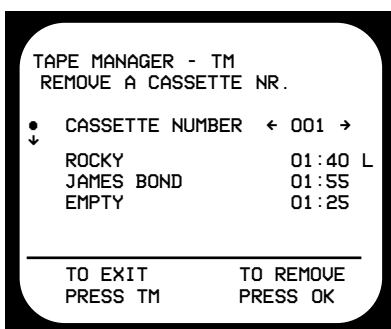
Content will not be deleted

The cassette will only be removed from the memory of the Tape Manager. The content of the cassette will not be deleted!

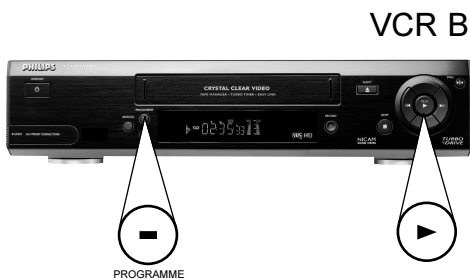
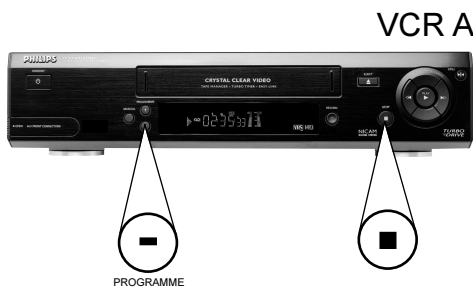
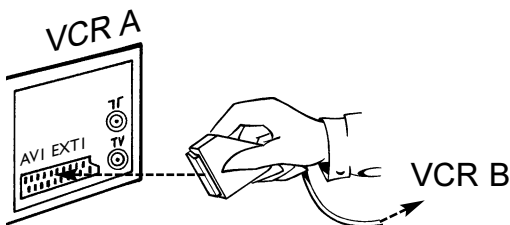
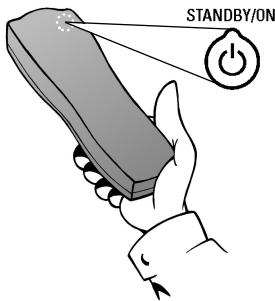


TIP

- 6 Finish with the button **TAPE MANAGER**



Copying Tape Manager memory



- 1 Make sure there are no cassettes in either of the two video recorders and switch VCR A and VCR B off using the Standby button
- 2 Take a scart cable and connect the scart socket **AVI EXT I** on the back of VCR A with the scart socket **AVI EXT I** on the back of VCR B
- 3 On the front of VCR A, press simultaneously the Record button **RECORD** and the button **PROGRAMME** -
- 4 On the front of VCR B press simultaneously the Playback button **PLAY** and the button **PROGRAMME** -
- 5 The data in the Tape Manager will be copied from VCR A to VCR B. This may take several minutes. As soon as the copying procedure has been completed, the display will show the message "LTK"

X "NO E" appears in the display of VCR B

✓ Cassettes had already been included in the Tape Manager of VCR B. It is not possible to perform the copying procedure. Press the Standby button to finish this function

X "NO I" appears in the display of VCR B

✓ There are no cassettes included in the Tape Manager of VCR A. Press the Standby button to finish this function

X "ERR" appears in the display of VCR B

✓ The copying procedure cannot be performed. Perform steps **1** to **5** again



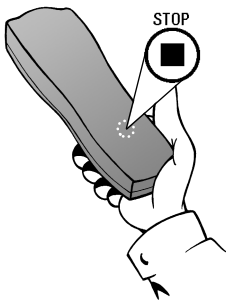
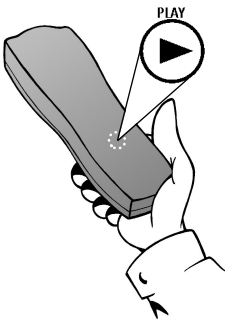
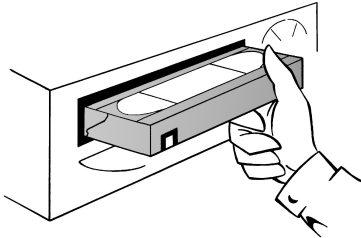
PROBLEM

- 6 Both video recorders switch off automatically. The data in the Tape Manager have been successfully transferred. Disconnect the scart cable

7

Playback

Playing cassettes



- 1 Insert a VHS cassette in the cassette opening on the front of the video recorder. The tape will be caught and automatically placed in the correct position. The display will show "P01"

What does VHS mean?

The "Video Home System" (VHS) has become the worldwide standard for recording and playback of amateur video cassettes. The popular standard has since been refined. Super-VHS (S-VHS) offers greater sharpness and less noise, Digital-VHS (D-VHS) now only works with digital picture and sound signals. Your video recorder can only record and play standard VHS cassettes.



PARDON?

- 2 Press the Playback button ► to play the tape

✗ Picture / sound quality is poor

- ✓ Please read the section "Removing picture interference" in this chapter.
- ✓ When playing many rental videos or older, poorer quality cassettes, it may not be possible to completely filter out picture and sound interference. There is nothing wrong with the video recorder.



PROBLEM

- 3 Press the Stop button ■ on the remote control (or the Stop button ■ on the front of the video recorder), to stop playback

- 4 Press the cassette eject button ▲ on the front of the video recorder to remove the tape

Automatic switch-off

Many functions (pause, still picture, search, ...) switch themselves off automatically after a short time in order to protect the cassette and to save energy



TIP

Playing back NTSC cassettes

If you are using a PAL TV set which is capable of showing a frame frequency of 60 Hz, you can play cassettes which have been recorded on the NTSC standard (USA, Japan, etc.). During an NTSC playback, some special functions (e.g. still picture) are not possible. The display will show "60HZ"

Displaying tape position

If the **COUNTER** button is pressed during playback and recording the current tape position will be briefly displayed on the screen. There are three different types of display available.

- 1 Start playback (Play button ►) or recording (Record button ●)
- 2 By pressing the button **COUNTER** the current tape position will be displayed on the screen. Each further press of the button **COUNTER** activates the next type of display

What types of display are available to me?

- “**COUNTER**” : The display shows the number of minutes of tape already played after insertion of the cassette (hours/minutes/seconds)
- “**TIME LEFT**” : The display shows the remaining playing time to the end of the cassette (hours/minutes/seconds)
- “**TIME USED**” : The actual tape position (from the start of the tape to the present tape position) will be displayed.



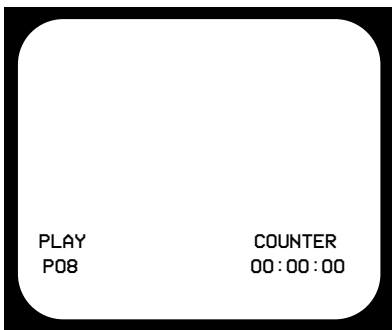
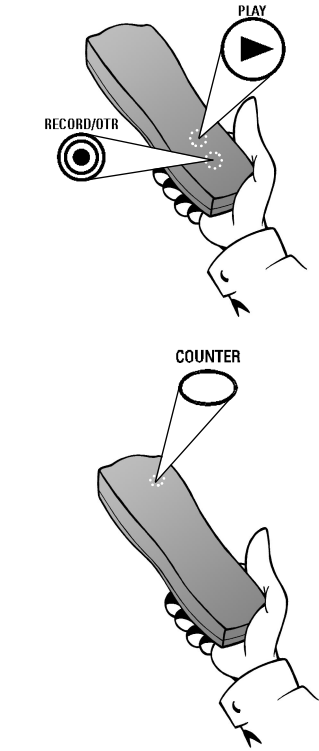
PARDON?

- 3 As soon as the button **COUNTER** has not been pressed for a few seconds, the display of the tape position disappears again.

- ✗ The counter stops running when unrecorded places are found (“Linear” display type)
- ✓ This is normal, and is necessary for technical reasons.
- ✗ The display shows a negative playing time
- ✓ This may happen, for example, when you insert an incompletely-rewound cassette into the video recorder and rewind it to the start of the tape. Since the display is automatically reset to “00:00:00” when you insert a cassette, the actual start of the cassette for the set is less than zero - thus in the negative range. The tape position is displayed with a minus sign “-”.
- ✗ After inserting a cassette the video recorder shows no remaining playing time
- ✓ The set needs a little time to calculate the remaining playing time. After a few seconds, the display should change from --:--:-- to the corresponding value



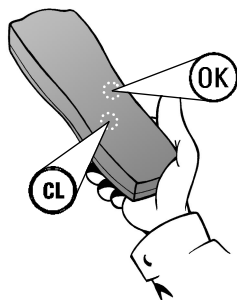
PROBLEM



Display / reset tape position

Call up: **COUNTER**

Reset: **CL** (only possible in display type "TIME USED")



Automatic reset

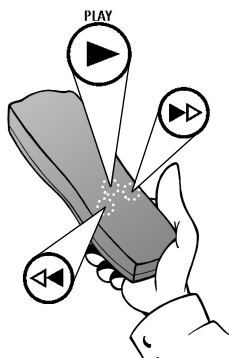
Whenever a cassette is inserted the display is automatically reset to "00:00:00".



TIP

Searching for tape position with picture (picture search)

- 1 During playback press ◀◀ (rewind) or ▶▶ (forward)
- 2 Interrupt the search wherever you like with the Playback button ▶



Reduced quality

During picture search the picture quality is affected. The sound is switched off.

Different search speeds

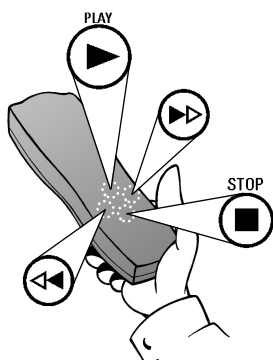
-If you press ◀◀ or ▶▶ twice, the tape speed will increase. If you press it again the speed is reduced to normal once more.



TIP

Searching for tape position without picture (forward wind and rewind)

- 1 Stop the tape with the Stop button ■
- 2 Press ◀◀ (rewind) or ▶▶ (forward)
- 3 Interrupt the search wherever you like with the Playback button ▶



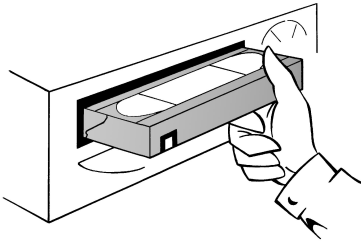
Switching between rewind / forward wind and picture search (instant view)

When winding the tape backwards or forwards if you hold down ◀◀ (rewind) or ▶▶ (forward wind), the set will immediately switch without a break to picture search (with picture). When you release the rewind or forward wind button the rewind or forward wind process (without picture) will continue



FOR EXPERTS

Searching automatically for tape position (Index search)



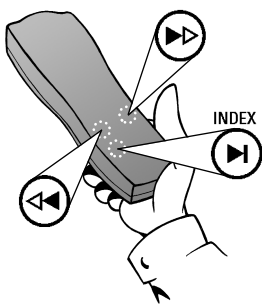
- 1 Insert a tape recorded on this video recorder or on another set with index marking




What is an index marking?

At the start of each new recording the video recorder automatically places a magnetic marking - similar to a bookmark - at the appropriate place on the tape. These positions can be found again quickly and easily later by pressing a button.



PARDON?



- 2 Press the Index button  and then  (next index marking) or  (previous index marking)

- 3 The video recorder searches for the desired index marking and automatically switches to playback

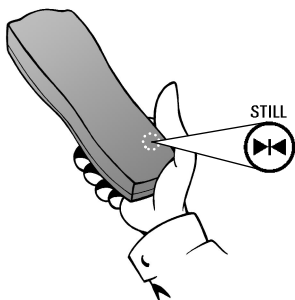
X The cassette is ejected


✓ The video recorder was unable to find an index marking on the tape inserted.





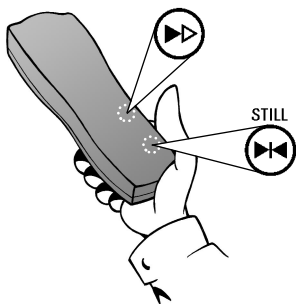
PROBLEM

Still picture / slow motion



- 1 To stop the picture, press the Still button  during playback

- 2 Keep  pressed down to play back the picture in slow motion or press  several times in succession in order to move the picture forward frame by frame



- 3 Press ►► once to start automatic slow motion playback

Increase playback speed

In automatic slow motion mode press ►► several times to increase the playback speed.

No sound during slow motion

During slow motion there will be no sound

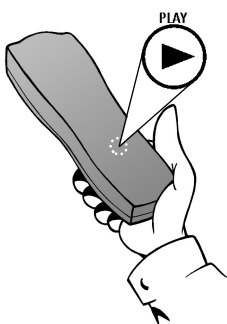


TIP

- 4 To resume playback press the Play button ►, to stop the tape press the Stop button ■

Skipping commercials

Do you get annoyed by the commercial breaks which are recorded along with your programmes ? With the function "Commercial Skip" you can skip these quickly and easily.



- 1 During playback, press button ►
- 2 The video recorder winds the tape forward for about 2 minutes playing time and then switches to playback again. Repeat step 1 until the end of the commercial break has been reached


Interrupt "Commercial Skip"

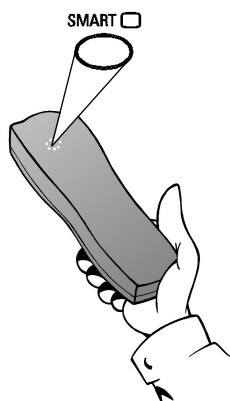
During winding, press the button ► to switch back immediately to playback.





TIP

Selecting picture setting (Smart Picture)

Using the button **SMART**  the picture settings can be displayed and altered during playback. There are four different settings available.




- 1 Press once on the button **SMART** . The current picture setting will be displayed
- 2 Press several times on the button **SMART**  to change the picture setting. Each time the button is pressed, the next picture setting will be displayed.

What types of picture setting are available to me?

- “NATURAL” : Standard setting
(for all types of films)
- “DISTINCT” : Emphasises details
(e.g. for sports programmes)
- “SOFT” : Suppression of interference
(when using rented cassettes)
- “SHARP” : Increase in sharpness
(e.g. for animated films)



PARDON?

- 3 As soon as the button **SMART**  has not been pressed for a few seconds, the last selected picture setting will be accepted.

Play compact VHS cassettes

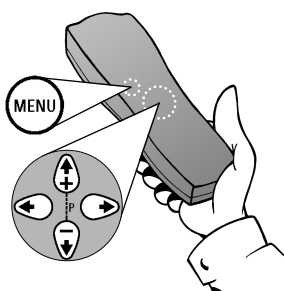
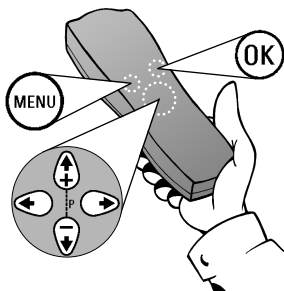
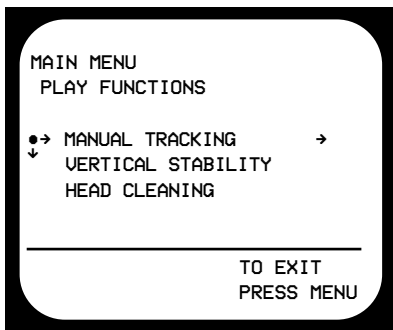
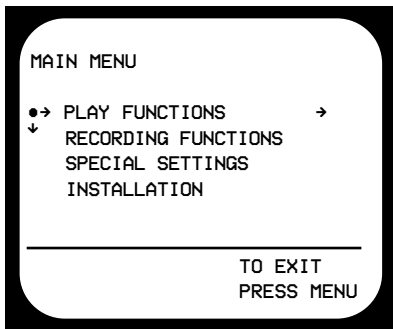
You can, of course, also use this video recorder to play back compact VHS cassettes. To do this, you will need the appropriate cassette adapter. Its dimensions match those of a normal VHS cassette. The adapter is recognised and treated by the set as a VHS cassette.



FOR EXPERTS

8

Removing picture interference



Optimizing tracking

- 1 During playback press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “PLAY FUNCTIONS” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “MANUAL TRACKING” and confirm with **→**

What is tracking?

Tracking is the name given to the process of optimizing picture and sound playback. During this process the speed of the tape is adjusted in such a way that all kinds of interference are removed or (in the case of old VHS cassettes) minimized.



PARDON?

- 4 Hold down **→** or **←** until optimal playback quality has been achieved and confirm with **OK**. The screen will show the message “STORED”
- 5 Leave the on-screen menu with the **MENU** button

Tracking adjustment is retained

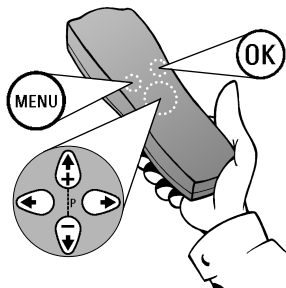
The adjustments made are stored until the cassette is removed. After that, the standard tracking adjustment is restored.



TIP

Optimizing still picture

- 1 When still picture is activated, press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “PLAY FUNCTIONS” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “VERTICAL STABILITY” and confirm with **→**



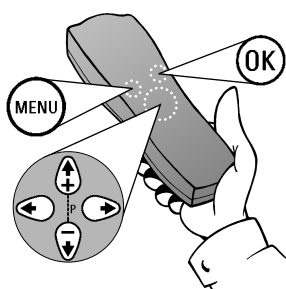
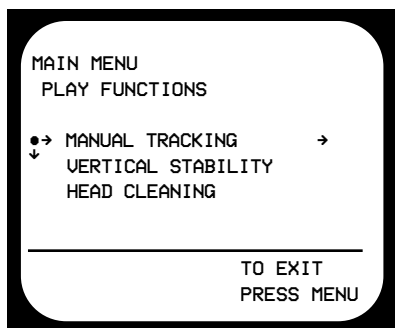
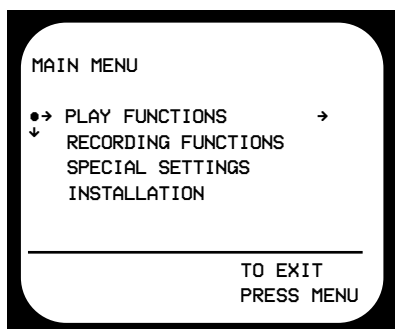
- 4 Hold down → or ← until optimal playback quality has been achieved and confirm with **OK**. The screen will show the message “STORED”

X I can't get optimal quality
✓ When using rental cassettes or older tapes, it may not be possible to get rid of all interference completely



- 5 Leave the on-screen menu with the **MENU** button

The setting is retained
 The adjustments made are stored until the cassette is removed. Then the still picture standard setting is restored.



Cleaning video heads

If horizontal lines of interference appear during playback, the video heads need cleaning.

- 1 During playback press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use ↓P- or ↑P+ to select the option “PLAY FUNCTIONS” and confirm with →
- 3 Use ↓P- or ↑P+ to select the option “HEAD CLEANING”

Why is it necessary to clean the video heads?
 When playing back video tapes, microscopic particles of the tape material build up a layer on the video head. If too much tape material collects, this can affect playback quality. By using the function “Clean video heads”, this tape material can be gently removed from the surface of the video heads.



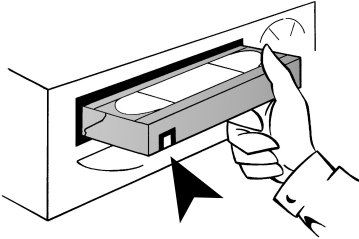
- 4 Press **OK** to start the cleaning procedure. The screen will show “HEAD CLEANING IN PROGRESS”
- 5 Wait until the message disappears and leave the on-screen menu with **MENU**

9

Manual recording

Starting and stopping of recording manually

- 1 Switch on the TV set and - if necessary - select the programme number set for video recorder operation



- 2 Insert a cassette without erase protection

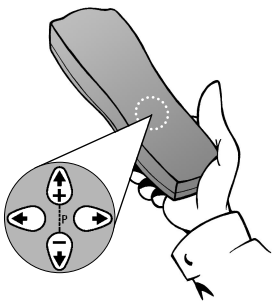
What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



PARDON?

- 3 Use the buttons \downarrow P- or \uparrow P+ to select the programme number, under which your video recorder has stored the desired TV channel



X I can't find the TV channels from my satellite receiver

X I want to record from an additional device

✓ Signals from additional devices - such as a camcorder, other video recorder, PCs, etc. - are received via the scart socket of the video recorder. The programme numbers "E 1" and "E 2" are allocated for these sources.



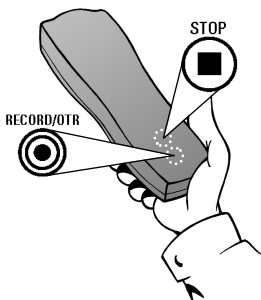
PROBLEM

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. This chapter explains how to set the desired recording speed ("Selecting the recording speed").



FOR EXPERTS

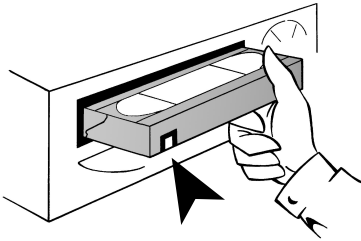


- 4 Start recording by pressing the Record button ● (remote control or on front of set). The display will show "●".

- 5 End the recording by pressing the Stop button ■



Starting recording manually/stopping automatically



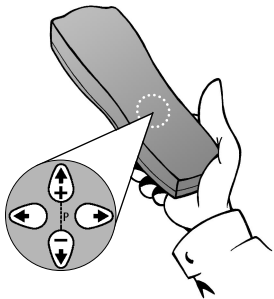
- 1 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



PARDON?



- 2 Use the buttons **↓P-** or **↑P+** to select the programme number, under which your video recorder has stored the desired TV channel

✗ I can't find the TV channels from my satellite receiver

✗ I want to record from an additional device

✓ Signals from additional devices - such as a camcorder, other video recorder, PCs, etc. - are received via the scart socket of the video recorder. The programme numbers "E 1" and "E 2" are allocated for these sources.



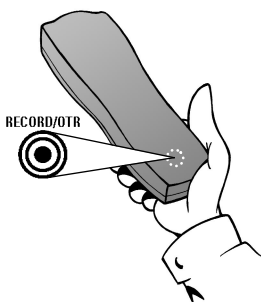
PROBLEM

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. This chapter explains how to set the desired recording speed ("Selecting the recording speed").



FOR EXPERTS



- 3 Press the Record button **●** several times. The time faded in corresponds to the duration of recording to be selected. Each time the Record button is pressed again this is increased in regular steps. Stop pressing the Record button **●** when you have reached the desired duration. Recording will start.

Delete entry

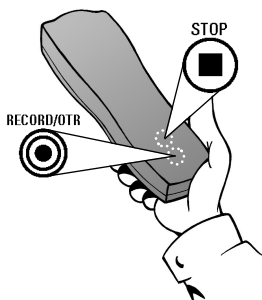
The recording period displayed can be reset to 00:00:00 with the **CL** button.



TIP

Lining up manual recordings

When you add a further recording to a cassette, which already has a recording on it, a short blank (flicker) usually appears between the old and the new recording. This is how to avoid such an effect.



- 1 Look at the last minute of the old recording (playback)
- 2 Press the Stop button ■ at the point where you want the new recording to start (the display will show ||)
- 3 Press the Record button ● in the usual way to start the new recording

Selecting the recording speed

- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use ↓P- or ↑P+ to select the option "RECORDING FUNCTIONS" and confirm with →
- 3 Use ↓P- or ↑P+ to select the option "RECORD SETTINGS" and confirm with →
- 4 Use ↓P- or ↑P+ to select the option "RECORDING SPEED" and use → or ← to select a recording speed

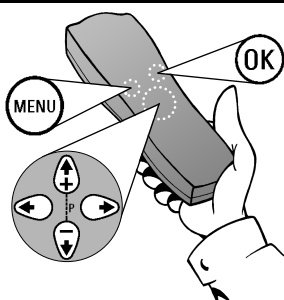
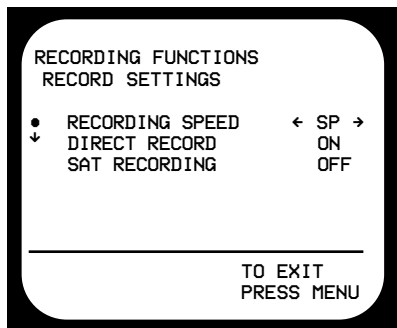
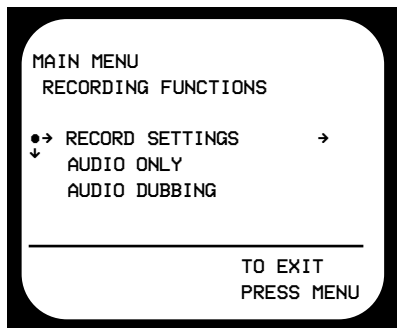
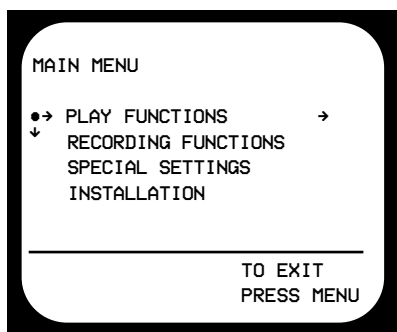
Standard Play / Long Play / Auto Long Play

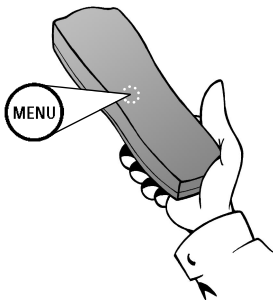
Standard Play (SP) offers the usual, first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. With the Auto Long Play (AUTO) setting, the video recorder calculates, before starting the programmed recording, how much playing time remains on the cassette inserted. Depending on the calculated remaining playing time and the duration of the programmed recording, the recording will be made in Standard Play or Long Play.



PARDON?

- 5 Confirm with **OK**. The screen will show the message "STORED"
- 6 Stop selection of recording speed with **MENU**





Activate / deactivate direct recording

- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option "RECORDING FUNCTIONS" and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option "RECORD SETTINGS" and confirm with **→**
- 4 Use **↓P-** or **↑P+** to select the option "DIRECT RECORD"

What is a "direct recording"?

The "Direct Record" function means you can record in seconds when the video recorder is switched off. When the record button is pressed, the video recorder automatically recognises which TV channel has been selected on the TV set and starts to record the corresponding programme.

Requirement: 1. The TV set and video recorder are connected with a scart cable! 2. The TV set supports the "Easylink" function. 3. The "Direct Record" function has been activated in the on-screen menu. 4. There is a cassette ready for recording in the machine!



PARDON?

- 5 Use **→** or **←** to select the setting "ON" to enable direct recordings, or "OFF" to deactivate this function.

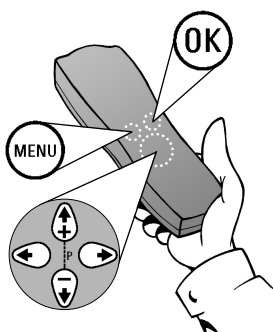
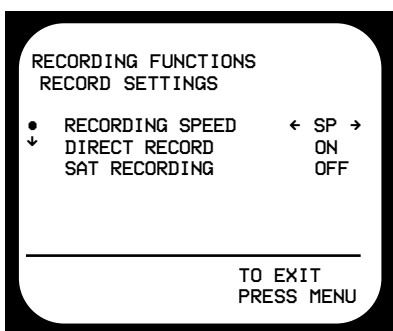
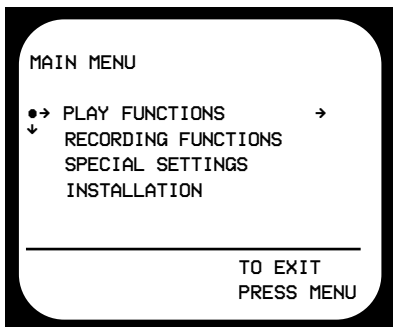
✗ I cannot select "ON" or "OFF"

✓ If the comment "N. ACT ." appears in the "DIRECT RECORD" option, unfortunately your TV set does not support the "Easylink" function. This means that direct recordings are not possible.



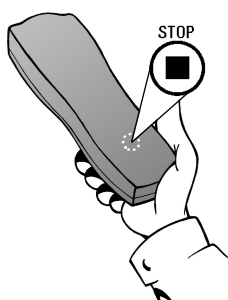
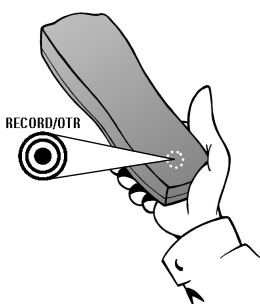
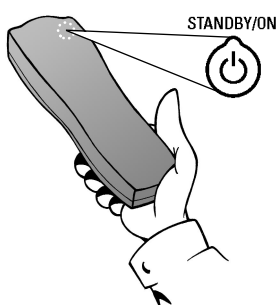
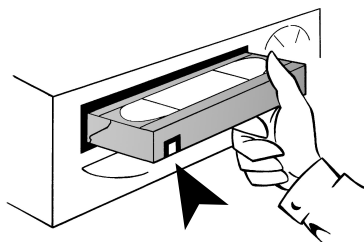
PROBLEM

- 6 Confirm the setting with **OK**. The screen will show the message "STORED"
- 7 Leave the on-screen menu with the **MENU** button



Making a direct recording

- 1 The “direct record” function must be activated in the on-screen menu (see previous page). No direct recordings can be made unless this function has been activated



What is a “direct recording”?

The “Direct Record” function means you can record in seconds when the video recorder is switched off. When the record button is pressed, the video recorder automatically recognises which TV channel has been selected on the TV set and starts to record the corresponding programme.

Requirement: 1. The TV set and video recorder are connected with a scart cable! 2. The TV set supports the “Easylink” function. 3. The “Direct Record” function has been activated in the on-screen menu. 4. There is a cassette ready for recording in the machine!



PARDON?



- 2 Insert a cassette without erase protection

What is erase protection?


VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



PARDON?


- 3 Switch off the video recorder with the Standby button 
- 4 On the TV set, select the channel for the programme you wish to record
- 5 Press the Record button  on the video recorder. The video recorder recognises the TV channel on the TV set and automatically records the correct programme

Switch the video recorder off!

The “direct record” function only works if the Record button  is pressed when the video recorder is switched off.



TIP

- 6 End the recording by pressing the Stop button 

Recording automatically from a satellite receiver

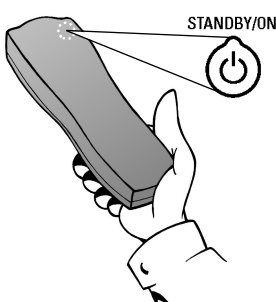
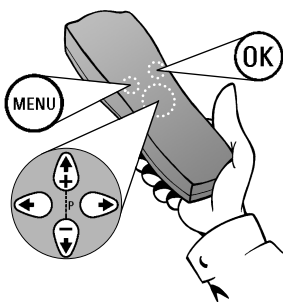
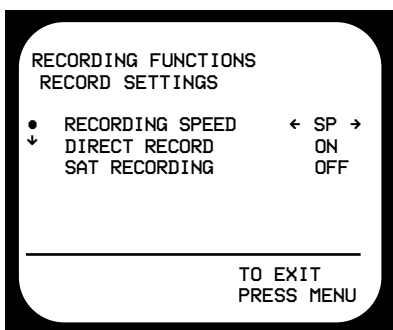
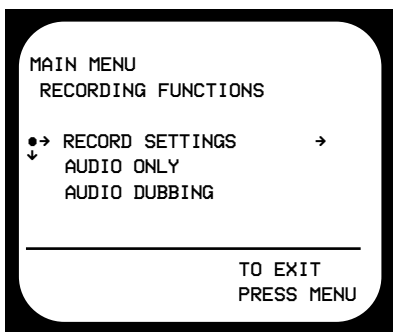
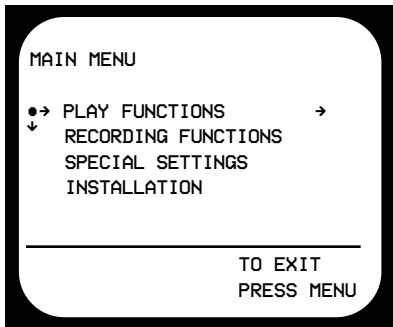
You can only use this function if you have a satellite receiver which can control other devices via a scart cable



What is a scart cable?

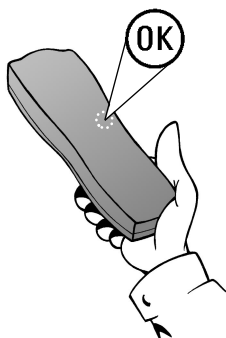
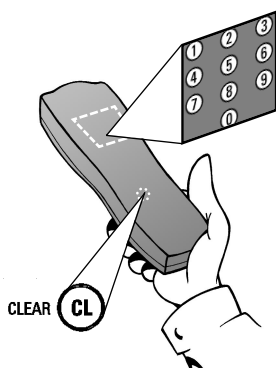
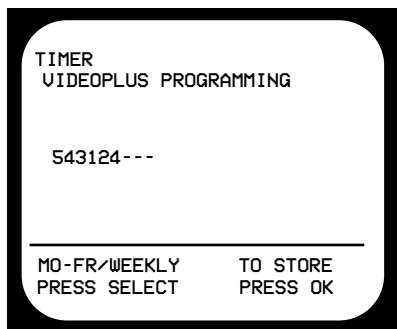
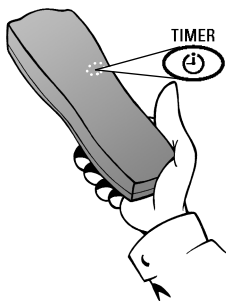
The scart or Euro-AV cable serves as the universal recording and playback connector for picture-, sound- and control signals. With this type of connection, there is practically no loss of quality during the signal transfer. We recommend that you use a scart cable when using this video recorder.



PARDON?



- 1 Insert a cassette without erase protection
- 2 Make sure that the satellite receiver is connected to the scart socket **AV 1 EXT.1** or **AV 2 EXT.2** at the back of the video recorder
- 3 Press the **MENU** button on the remote control. The on-screen menu appears
- 4 Use **↓P-** or **↑P+** to select the option “RECORDING FUNCTIONS” and confirm with **→**
- 5 Use **↓P-** or **↑P+** to select the option “RECORD SETTINGS” and confirm with **→**
- 6 Use **↓P-** or **↑P+** to select the option “SAT RECORDING” and use **→** or **←** to select the scart socket (“E1” or “E2”), to which the satellite receiver has been connected (see step 2). Confirm with **OK**. The screen will show (“STORED”)
- 7 Leave the on-screen menu with **MENU**
- 8 Programme the data on the satellite receiver for the desired recording. If necessary, you should refer to the instructions for your satellite receiver for assistance.
- 9 **SWITCH OFF THE VIDEO RECORDER WITH THE STANDBY/ON BUTTON** . IF YOU DON'T DO THIS, THE SET WILL NOT RECORD. When automatic recording has been activated by a satellite receiver, “” will light up in the display



Programming timer with VIDEO Plus+

- 1 Press the **TIMER** button

What is a Timer?

The timer controls the programmed recordings of your video recorder. Requirements for a timer which works correctly: The clock in the video recorder must be correctly set or the reception of the TV signal must be as free from interference as possible (for example, if there is interference, the video recorder might not correctly recognise the VPS signal of a TV channel).



PARDON?

- 2 Use **↓P-** or **↑P+** to select the option "VIDEOPLUS RECORDING" and confirm with **→**. The VIDEO Plus screen will appear

What is VIDEO Plus+?

A programming system which replaces the often tiresome entry of date, starting time, finish time and programme number by the simple entry of a number up to nine digits long (which can be found in any TV programme listing).



PARDON?

- 3 Use the **0-9** keys to enter the PlusCode programming number of the TV programme selected: Incorrect entries can be deleted with the button **CL**

Daily / weekly recordings

If you like, you can use **SELECT** to choose "MO-FR" for recordings, which are repeated daily or "WEEKLY" for recordings which are repeated each week on the same day.



FOR EXPERTS

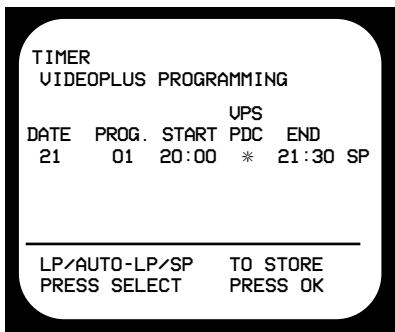
- 4 Confirm with **OK**

✗ I get the error message "PROGRAMME NUMBER ← P-- →"

✓ You have entered a correct PlusCode programming number - but automatic recognition of the correct TV channel has failed. Please enter the programme number under which your video recorder has stored the desired TV channel, using the buttons **0-9**, and confirm with **OK**.



PROBLEM



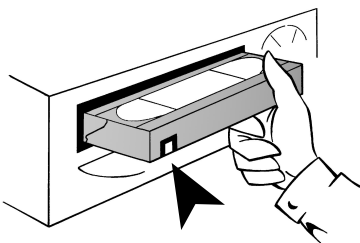
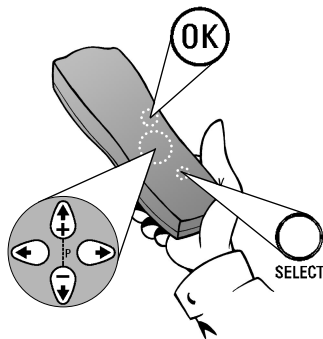
- 5 The data of previously entered VIDEO Plus recordings are displayed. If necessary select the entry fields with with → or ← and enter date, programme number, start time or end time with ↓P-, ↑P+ or 0-9

Activate VPS/PDC

VPS (Video Programming Service) and PDC signals (Programme Delivery Control) are transmitted by TV channels at the start and end of transmissions and ensure that programmes will be completely recorded, even if they are rescheduled. In the input box, "START" use **SELECT** to switch recognition of these signals on (*) or off ().

Selecting the recording speed

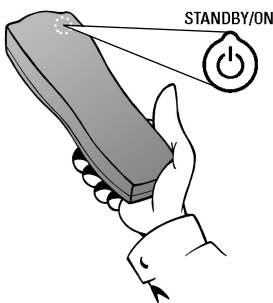
You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality, and with Long Play (LP) you can for example (with somewhat reduced picture quality) record about 360 minutes on a 180-minute cassette. In Auto Long Play (AL), the video recorder recognises how much remaining playing time is available and automatically selects SP or LP. In the entry field "END" use **SELECT** to enter the required setting.




- 6 Confirm with **OK**. The screen will show the message "STORED"
- 7 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



- 8 SWITCH OFF THE VIDEO RECORDER WITH THE **STANDBY/ON** BUTTON  ! IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.

The display will show "Ⓜ"

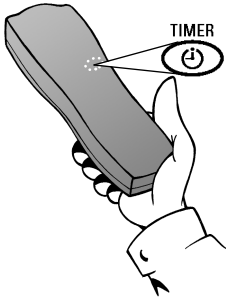
YOU WILL FIND TIPS FOR SOLVING PROBLEMS TO DO WITH VIDEO PLUS RECORDING ON THE FOLLOWING PAGE.



Problem solving (VIDEO Plus-Programming)

PROBLEM	SOLUTION
Error message: “PLUSCODE NUMBER ← P-- →”	A correct PlusCode programming number has been entered - but automatic recognition of the correct TV channel has failed. Please enter the programme number under which your video recorder has stored the desired TV channel using the buttons 0-9 and confirm with OK .
Error message: “PLUSCODE NUMBER WRONG”	The Pluscode programming number entered is incorrect. Please repeat the entry or finish with the button STANDBY/ON .
Error message: “WEEKEND PROGRAMMING NOT POSSIBLE”	The attribute “MO-FR” has been selected for a recording at the weekend. This is only possible for recordings from Monday to Friday. Please repeat the entry or finish with the button STANDBY/ON .
Error message: “SWITCH TO STANDBY - TIMER RECORDING”	A recording was programmed, but the video recorder was not switched into timer mode with the Standby button . Press STANDBY/ON , in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Error message: “NO CASSETTE”	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.
Error message: “MEMORY FULL”	All the available memory locations in your video recorder for timer and VIDEO Plus programming are full. Delete a programmed recording (see chapter “Delete a programmed recording”).
“” and/or “” are flashing in the display of the video recorder	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording. A recording was programmed, but the video recorder was not switched into timer mode with the Standby button . Press STANDBY/ON , in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Cassette is ejected after programming	A cassette with erase protection was inserted. Please deactivate the erase protection or insert another cassette which is ready for recording.
Cassette is ejected during recording	The end of the tape was reached during a programmed recording. The recording could not be completed satisfactorily.
The set cannot be used during recording.	Once started, a recording can only be interrupted by pressing the STANDBY/ON button . WARNING: This will not only stop the recording, but it will also delete the programmed recording from the memory of the video recorder.
Year/month/date/time screen appears	The time has not been set or not set correctly. After entering/confirming year, month, date and time you can continue programming.

Programming timer without VIDEO Plus+



- 1 Press the button **TIMER**
- 2 Use **↓P-** or **↑P+** to select the option "TIMER RECORDING" and confirm with **→**
- 3 The timer screen appears



Enter the values correctly

Numbers less than 10 must be entered with an additional "0". For "9" thus "09" should be entered.



- 4 Use **→** or **←** to select the entry field "DATE" and use **↓P-** or **↑P+** or the number buttons **0-9** to enter the date of the desired recording

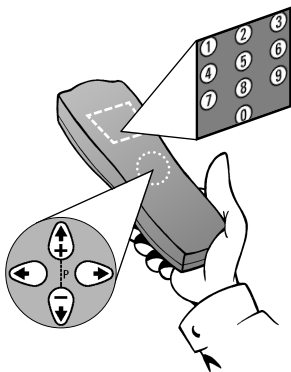


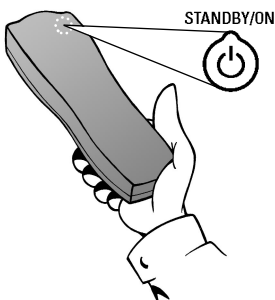
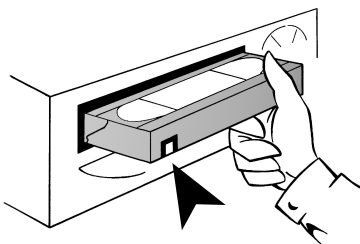
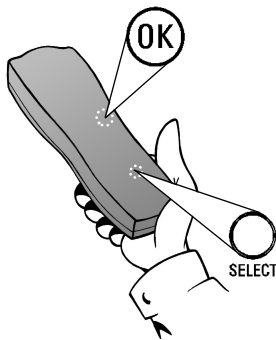
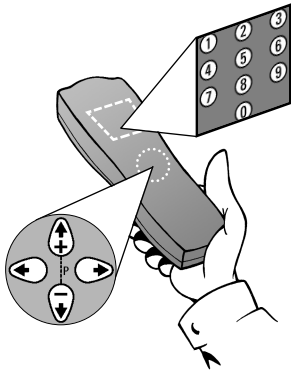
Daily / weekly recordings

If you like, you can use **SELECT** "MO-FR" for recordings which are repeated daily or "WEEKLY" for recordings shown each week on the same day.



- 5 Use **→** or **←** to select the entry field "PROG. ." and use **↓P-** or **↑P+** or the number buttons **0-9** to enter the programme number under which the video recorder has stored the desired TV channel
- 6 Use **→** or **←** to select the entry field "START" and use **↓P-** or **↑P+** or the number buttons **0-9** to enter the start time of the desired recording





Activate VPS/PDC

VPS (Video Programming Service) and PDC signals (Programme Delivery Control) are transmitted by TV channels at the start and end of transmissions and ensure that programmes will be completely recorded, even if they are rescheduled. In the entry field, "START" use **SELECT** to switch recognition of these signals on (*) or off ().



- 7** Use → or ← to select the entry field "END ." and use ↓P- or ↑P+ or the number buttons 0-9 to enter the finishtime of the desired recording

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality, and with Long Play (LP) you can for example (with somewhat reduced picture quality) record about 360 minutes on a 180-minute cassette. In Auto Long Play (AL), the video recorder recognises how much remaining playing time is available and automatically selects SP or LP. In the entry field "END" use **SELECT** to enter the required setting.



- 8** Check that the date, programme number, start and finish time are shown correctly on the screen. Confirm with **OK**. The screen will show "STORED"

- 9** Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.








- 10** SWITCH OFF THE VIDEO RECORDER WITH THE **STANDBY/ON** BUTTON  ! IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.

The display will show "

YOU WILL FIND TIPS FOR SOLVING PROBLEMS TO DO WITH TIMER RECORDING ON THE FOLLOWING PAGE.



Problem solving (Timer programming)

PROBLEM	SOLUTION
Error message: “NO CASSETTE”	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.
Error message: “SWITCH TO STANDBY - TIMER RECORDING”	A recording was programmed, but the video recorder was not switched into timer mode with the Standby button. Press STANDBY/ON  , in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
“” and/or “” are flashing in the display of the video recorder	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording. A recording was programmed, but the video recorder was not switched into timer mode with the Standby button. Press STANDBY/ON  , in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Error message: “MEMORY FULL”	All the available memory locations in your video recorder for timer and VIDEO Plus programming are full. Delete a programmed recording (see chapter “Delete / check / change programmed recordings”).
Cassette is ejected during recording	The end of the tape was reached during a programmed recording. The recording could not be completed satisfactorily.
Cassette is ejected after programming	A cassette with erase protection was inserted. Please deactivate the erase protection or insert another cassette which is ready for recording.
The set cannot be used during recording	Once started, a recording can only be interrupted by pressing the STANDBY/ON button  . WARNING: This will not only stop the recording, but it will also delete the programmed recording from the memory of the video recorder.
Year/month/date/time screen appears	The time has not been set or not set correctly. After entering/confirming year, month, date and time you can continue programming.

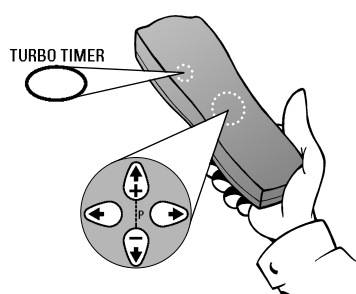
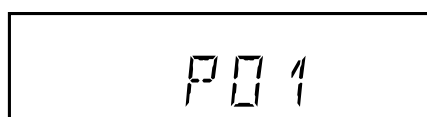
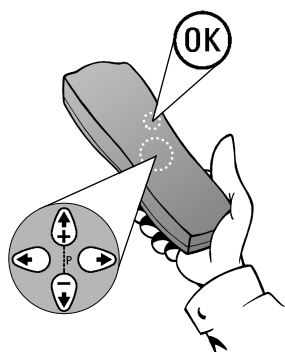
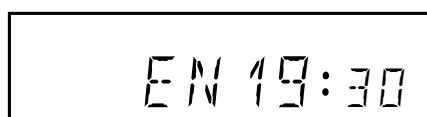
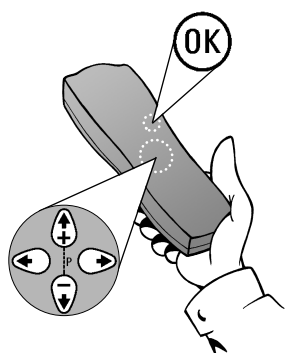
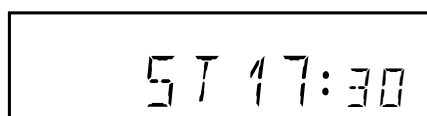
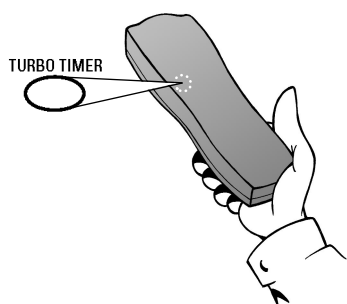
Recording via external sources

If you want to watch or record transmissions from a satellite receiver, films from a video camera (or from other external devices), connect the device to the scart socket **EXT1 AV1** or **EXT2 AV2** and select the programme number on your video recorder “**E 1**” or “**E 2**”.



**FOR
EXPERTS**

“Turbo Timer”-Recording



- 1 Press the **TURBO TIMER** button on the remote control.
- 2 The display shows the actual starting time, e.g.: “20:00”. Change – if necessary – the displayed start time with **↓P-** or **↑P+**

Activate VPS/PDC

VPS (Video Programming Service) and PDC signals (Programme Delivery Control) are transmitted by TV channels at the start and end of transmissions and ensure that programmes will be completely recorded, even if they are rescheduled. Use **SELECT** to switch recognition of these signals on (VPS/PDC appears in the display) or off.



FOR EXPERTS

- 3 Confirm with **OK**
- 4 The display shows a suggestion for the end of the recording e.g.: “22:00” (Start time + 2 hours). Change – if necessary – the displayed finish time with **↓P-** or **↑P+**. Confirm with **OK**

Selecting the recording speed

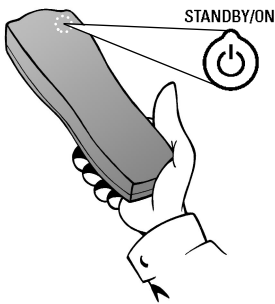
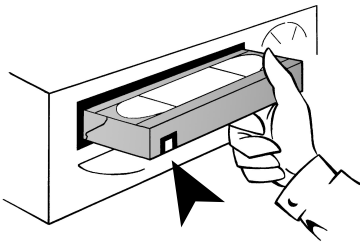
You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality, and with Long Play (LP) you can for example (with somewhat reduced picture quality) record about 360 minutes on a 180-minute cassette. Use **SELECT** to enter the required setting. When “Long Play” is chosen, “LP” will light up in the display.



FOR EXPERTS

- 5 The display shows the programme number to which the video recorder is currently set, e.g.: “P01”. Change – if necessary – the displayed programme number with **↓P-** or **↑P+**.
- 6 Confirm with the **TURBO TIMER** button. The display briefly shows “OK”.

OK




- 7 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



- 8 SWITCH OFF THE VIDEO RECORDER WITH THE STANDBY/ON BUTTON  ! IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.

The display will show "

Problem solving (Turbo Timer programming)

PROBLEM

SOLUTION

 will blink in the display

A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.

Error message:
"COLLISION"

It is not possible to record two programmed recordings at the same time. Please check the existing programmed recordings (see chapter "Delete / check / change programmed recordings").

Error message:
"FULL"

All the available memory locations in your video recorder for timer and VIDEO Plus programming are full. Delete a programmed recording (see chapter "Delete / check / change programmed recordings").


Cassette is ejected during recording

The end of the tape was reached during a programmed recording. The recording could not be completed satisfactorily.

Cassette is ejected after programming

A cassette with erase protection was inserted. Please deactivate the erase protection or insert another cassette which is ready for recording.

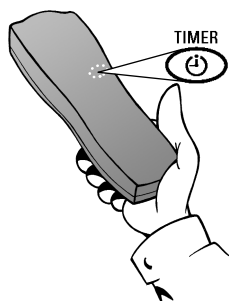
The set cannot be used during recording

Once started, a recording can only be interrupted by pressing the STANDBY/ON button . WARNING: This will not only stop the recording, but it will also delete the programmed recording from the memory of the video recorder.

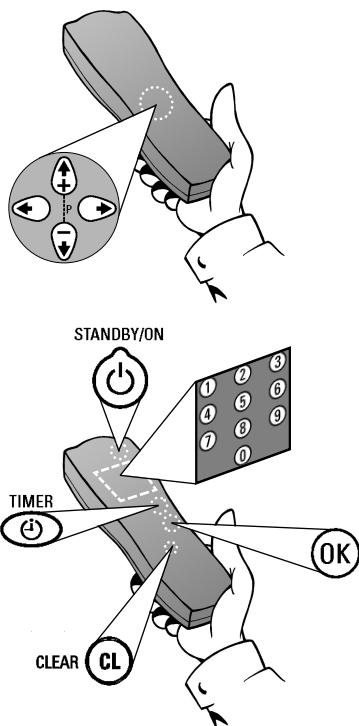
Error message:
"ELK"


The time has not been set or not set correctly. A Turbo Timer recording is not possible. Please enter the correct time (Section "Changing the time and date")

Delete / check / change programmed recordings



TIMER TIMER LIST				
DATE	PROG.	START	PDC	END
21	01	20:00	*	21:30 SP
TOTAL RECORD TIME: 01:30				
TO CHANGE PRESS →		TO EXIT PRESS TIMER		






- 1 Press the **TIMER** button  on the remote control
- 2 Use **↓P-** or **↑P+** to select the option "TIMER RECORDING" and confirm with **→**
- 3 In the display, use the button **↓P-** or **↑P+** to select the storage position you wish to check/change/delete

What is a memory location?

For technical reasons, your video recorder has access to a limited number of "drawers" in which you can store your programming requirements. "Drawers" occupied by programme recording details are only available for use again after the video recorder has successfully completed a programmed recording or if it has been manually deleted. Your video recorder can store up to six timer programmings

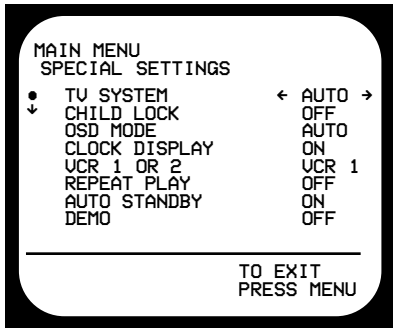
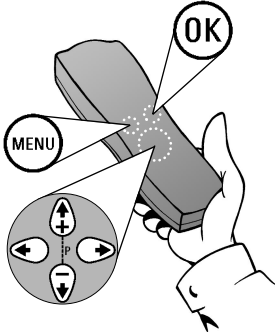


PARDON?

- 4 **Delete:** Press **CLEAR (CL)**, confirm with the button **OK** (screen shows "TIMER CLEARED") and finish with **TIMER** 
- Check:** Press **→**, check the stored details and (once you have checked) end with **TIMER** 
- Changing:** Press **→**, use **↓P-** or **↑P+** to select the entry fields to be altered and use **0-9** to enter the new value(s). Confirm with **OK** and activate the timer again with the Standby button .

Using "NexTView Link"

If your TV set supports the function "NexTView Link" there is another way in which you can quickly and simply programme recordings: With these TV sets, you can call up the transmission schedule of the TV channel, mark the programmes to be recorded and automatically transfer their details into the memory of the video recorder. Please look in the instructions for your TV set to find out whether and how you can benefit from this function.



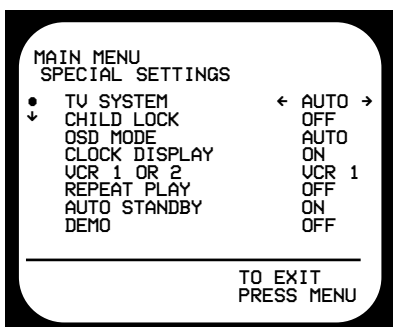
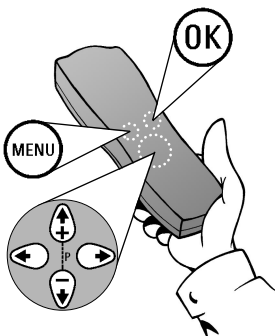
Adjusting automatic switch-off

If the video recorder is not used for several minutes, it switches itself off automatically. If you want to use the video recorder as a TV receiver, you can deactivate the automatic switch-off as follows:

- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “SPECIAL SETTINGS” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “AUTO STANDBY” and use **→** or **←** to select the setting “ON” (automatic switch-off) or “OFF” (no automatic switch-off). Confirm with **OK**
- 4 Complete the adjustment of automatic switch-off with the **MENU** button

Adjusting the child lock

You can prevent unauthorised use of your video recorder with this function. Once it is activated, the buttons on the front of the set are locked. Previously entered programmes will of course be recorded



- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “SPECIAL SETTINGS” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “CHILD LOCK” and use **→** or **←** to select the setting “ON” (Child lock on) or “OFF” (Child lock off). Confirm with **OK**

Put the remote control away in a safe place.

Once the child lock has been activated, (“**ON**” lights up in the display) the video recorder can now only be used with the remote control. The buttons on the front of the set will not function. Put away the remote control somewhere out of the reach of children.

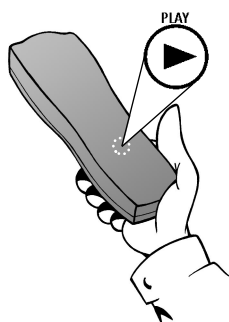
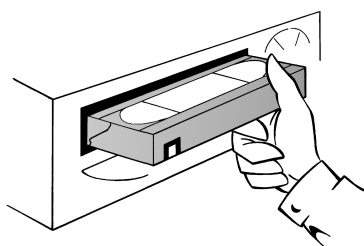
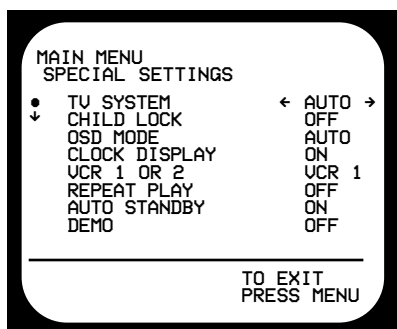
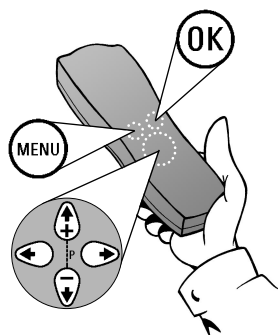


TIP

- 4 Finish with the **MENU** button

Replaying cassette continuously

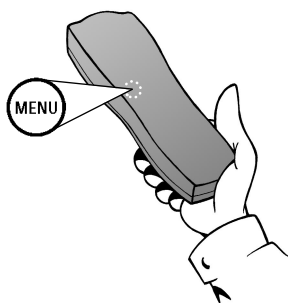
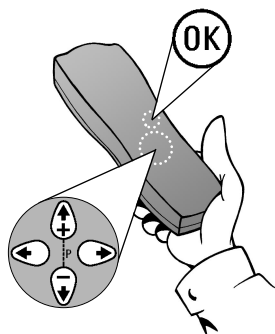
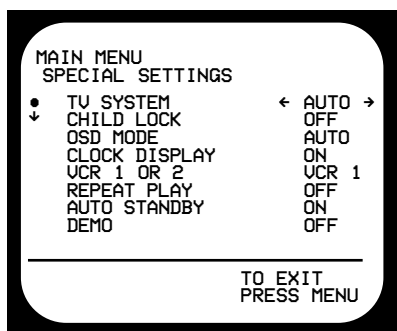
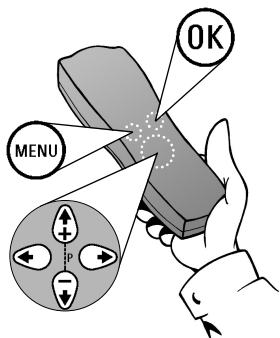
This function can be used to play a tape over and over again. If the end of the cassette or of the recording has been reached, the video recorder automatically rewinds to the start of the tape and starts to play back again. This function is activated or deactivated as follows:



- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “SPECIAL SETTINGS” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “REPEAT PLAY” and use **→** or **←** to select the setting “ON” (continuous playback on) or “OFF” (continuous playback off). Confirm with **OK**
- 4 Complete the adjustment of continuous playback with the **MENU** button
- 5 Insert a cassette
- 6 Press the Playback button **▶** to start the playback or continuous playback (depending on the setting)

Changing the TV system

When playing back cassettes which have been recorded with signals from a different TV system there may be interference with the colour. To deactivate the automatic change to a different TV system, you must follow these steps.



TV systems

Other countries, other TV systems: In central Europe transmissions are broadcast in the PAL-System (Phase Alternation Line) Standard, while in France SECAM (Séquentiel à mémoire) is used. In some countries (USA and Japan), TV viewers receive their programmes as an NTSC signal (National Television System Committee). Many TV and video sets can process and show several transmission systems.



PARDON?

- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option "SPECIAL SETTINGS" and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option "TV SYSTEM", use **→** or **←** to select the desired TV system or "B/W" for black/white playback and confirm with **OK**

Reactivating automatic change-over

As soon as a cassette is ejected with the Eject button **▲** on the front of the video recorder the set switches automatically back to the "AUTO" setting (automatic switching). To change the setting during playback, perform the steps **1-3** again and select "AUTO".

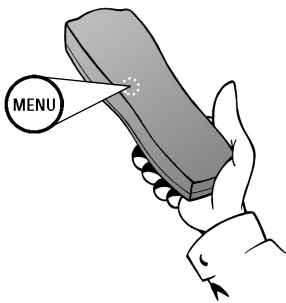


TIP

- 4 End the change-over to automatic TV system changing with the **MENU** button

Adjusting the OSD information

If this function is activated, the current operating details of the video recorder will be briefly displayed on the screen



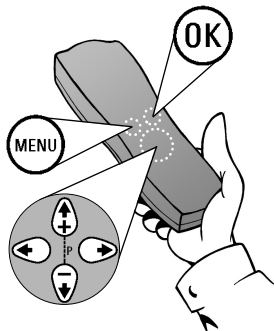
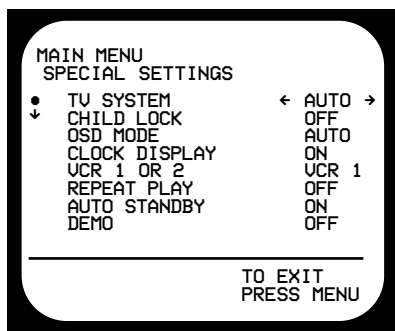
What is an OSD?

The on-screen menu or OSD (“On-Screen Display” takes the mystery out of using your new video recorder. Using the main menu (MENU button on your remote control), all settings and recording steps can be done easily via the on-screen menu by following the corresponding instructions on the screen.



PARDON?

- 1 During playback press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “**SPECIAL SETTINGS**” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “**OSD MODE**”, use **→** or **←** to select the desired setting and confirm with **OK**



What goes on behind the settings?

AUTO: For each type of operation selected (playback, recording, etc.) the corresponding symbol appears briefly on the screen

ON: The OSD details will be shown

OFF: OSD information is not shown



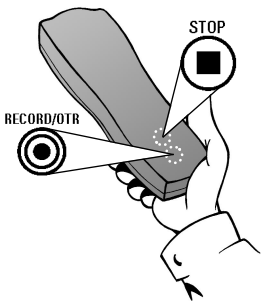
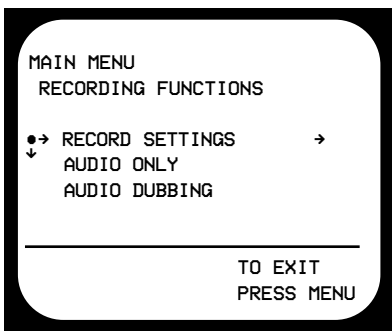
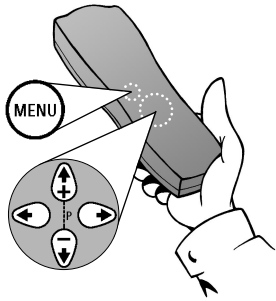
TIP

- 5 Complete the adjustment of the OSD information with the **MENU** button

Audio recording

You can record audio signals (without picture) on VHS cassettes, if you connect the sound source with the scart or audio sockets of the video recorder. Only use cassettes, that are not included in the Tape Manager. The chapter “Tape Manager (TM)” explains how to remove cassettes from the Tape Manager memory.

- 1 Connect the desired sound source to the video recorder and insert a cassette ready for recording



- Use **↓P-** or **↑P+** to select the corresponding programme number

Which is the correct programme number?

	Socket	Programme number
AV1 EXT1	(Rear)	E1
AV2 EXT2	(Rear)	E2
AUDIO	(Front)	E3
AUX IN	(Rear)	FLUX



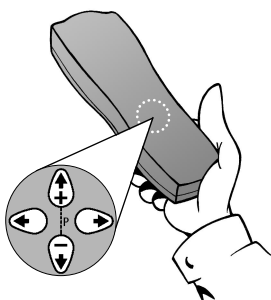
PARDON?

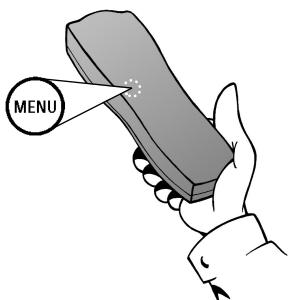
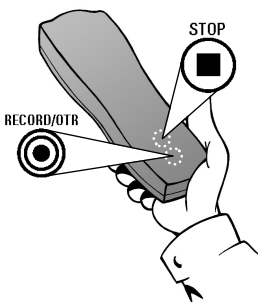
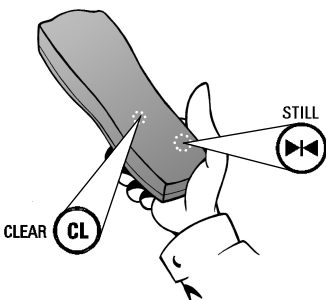
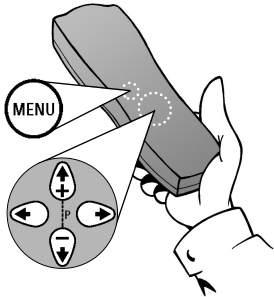
- Press the **MENU** button. The on-screen menu appears
- Use **↓P-** or **↑P+** to select the option “RECORDING FUNCTIONS” and confirm with **→**
- Use **↓P-** or **↑P+** to select the option “AUDIO ONLY” and confirm with **→**
- Press the Record button **●** in the usual way to start the recording
- Press the Stop button **■** to end the recording
- Leave the on-screen menu with the **MENU** button

Dubbing (Audio Dubbing)

Of course, you can also dub existing video recordings with this video recorder. The mono track is recorded with a new sound signal. The original stereo signal is retained. To make dubbing audible during playback, you must select the “MIX” or “MONO” sound channel setting. Only use cassettes, that are not included in the Tape Manager. The chapter “Tape Manager (TM)” explains how to remove cassettes from the Tape Manager memory.

- Connect the desired sound source to the video recorder and insert a cassette ready for recording
- Use **↓P-** or **↑P+** to select the corresponding programme number





- 3 Press the **MENU** button. The on-screen menu appears
- 4 Use **↓P-** or **↑P+** to select the option “**RECORDING FUNCTIONS**” and confirm with **→**
- 5 Use **↓P-** or **↑P+** to select the option “**AUDIO DUBBING**” and confirm with **→**
- 6 The video recorder switches to still picture
- 7 Wind to the space on the tape, where the dubbing should end, and with the button **CLEAR (CL)** set the counter to “00:00:00”

✗ The tape stops automatically and the “**RECORDING FUNCTIONS**” screen appears

✓ The end of the tape was reached during winding or playback. Go back to step 5, to start this procedure again.



- 8 Wind to the space on the tape, where the dubbing should begin, and press **⏮**. The video recorder switches to still picture
- 9 Press **⏮** (still picture) several times until the desired point is reached and confirm with the Stop button **■**
- 10 On the connected sound source start the playback of the sound signal and press **simultaneously** the Record button **●** on the remote control of the video recorder to start the recording.
- 11 The new sound signal is being recorded. As soon as the tape position previously marked with “00:00:00” is reached, the dubbing will stop automatically
- 12 Finish with the **MENU** button

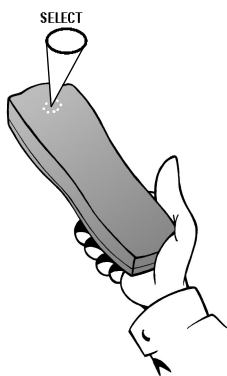
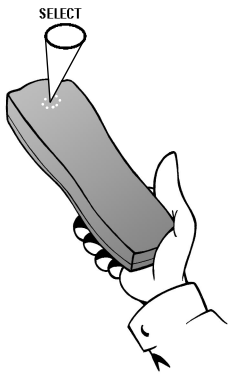
Make dubbing audible

To make dubbing audible, you must select the “**MIX**” or “**MONO**” sound channel setting (see “Selecting the sound channel”).



Selecting the sound channel

During playback or while receiving a TV channel via the video recorder, one or more sound channels can be selected. This means, for example, if there are multilingual transmissions, you can select the language you want.



- 1 Press the **SELECT** button on the remote control. The current sound channel setting is displayed

What goes on behind the settings?

- STEREO: Both left and right stereo sound tracks can be heard
- LEFT: The left stereo sound track can be heard
- RIGHT: The right stereo sound track can be heard
- MONO: The mono sound track can be heard
- MIXED: The mono sound track as well as the left and right stereo sound tracks can be heard



TIP

- 2 Press the **SELECT** button several times until the desired setting can be seen on the screen

Automatic switch-over to mono

If no stereo signal is recorded on a video cassette, the video recorder automatically switches over to the "MONO" sound channel setting

Make dubbing audible

When dubbing video recordings, the mono track is recorded with a new sound signal. The original stereo signal is retained. To make dubbing audible, you must select the "MIX" or "MONO" sound channel setting.



TIP

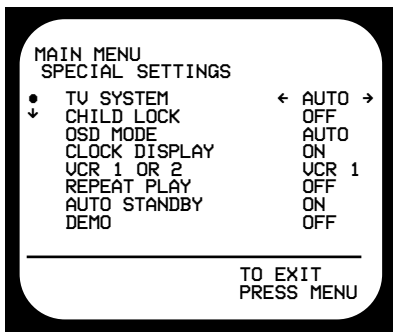
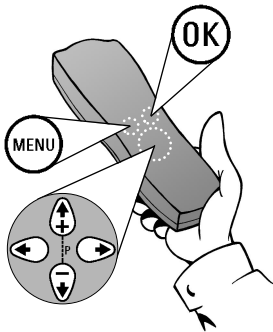


Manual mute

With the **MANUAL** button on the front of the video recorder you can regulate the signal level of the audio signals (scart sockets, audio sockets) received by the video recorder.

- 1 Press the **MANUAL** button on the front of the video recorder until the current setting (e.g. "MAN20") appears in the display
- 2 On the front of the video recorder use **PROGRAMME -** or **PROGRAMME +** to select the desired setting or press **MANUAL** again, to switch back to automatic mute ("AUTO")

MAN20



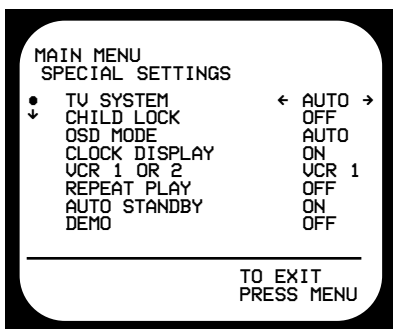
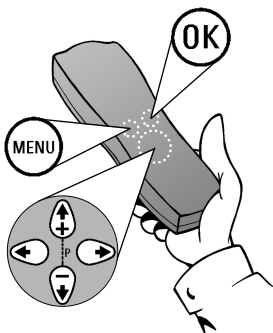
Demonstration mode

In this operating mode, the video recorder automatically gives a demonstration of its functions after switching off. Programmed recordings are obviously performed.

- 1 Press **MENU**. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “**SPECIAL SETTINGS**” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “**DEMO**”, use **→** or **←** to select “**ON**” or “**OFF**” and confirm with **OK**
- 4 Finish with the **MENU** button

Energy-saving mode

To reduce the power consumption of the video recorder you can switch the clock in the display of the video recorder on or off as follows:



- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option “**SPECIAL SETTINGS**” and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option “**CLOCK DISPLAY**”, use **→** or **←** “**ON**” (time display on in standby mode) or “**OFF**” (time display off in standby mode) and confirm with **OK**. The screen will show the message “**STORED**”
- 4 Complete the adjustment of the clock display with the **MENU** button

Adapting remote control

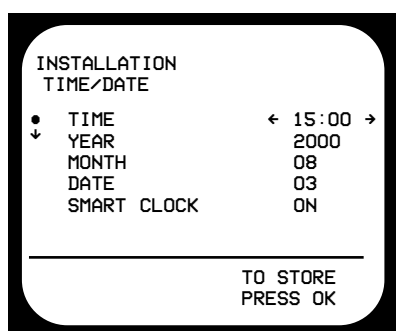
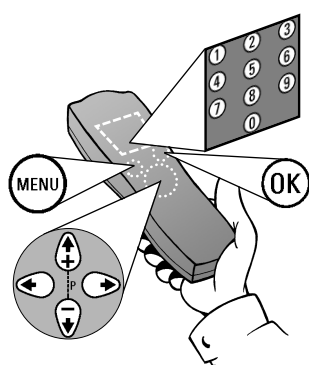
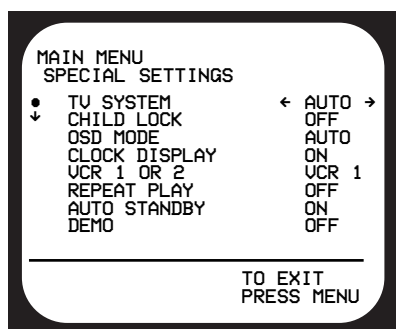
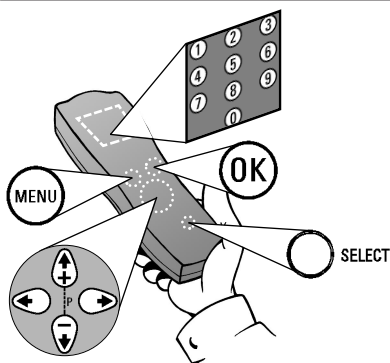
If you are using two video recorders which both react to the same remote control commands, you can use this function to change remote control and video recorder to other commands.

- 1 During playback press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓P-** or **↑P+** to select the option "SPECIAL SETTINGS" and confirm with **→**
- 3 Use **↓P-** or **↑P+** to select the option "VCR 1 OR 2", use **→** or **←** to select "VCR 1" or "VCR 2" and confirm with **OK**. The video recorder has now been reset to the desired mode
- 4 Now press, on the remote control, **simultaneously** on the buttons **SELECT** and the number button corresponding to the previously selected setting (thus "1" for "VCR 1" or "2" for "VCR 2")
- 5 Confirm with **OK**. The remote control has now been reset to the new commands
- 6 Finish with the **MENU** button

Activate / deactivate "Smart Clock"

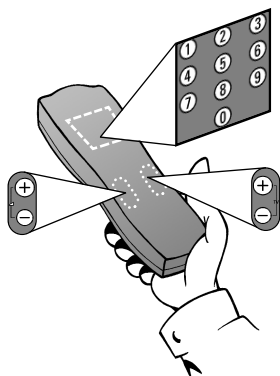
With the function "Smart Clock" time and date are automatically taken from the channel stored on "P01" (if this channel transmits TXT/PDC). If time or date are - even after repeated manual settings - not displayed correctly, you should switch this function off.




- 1 Press the **MENU** button on the remote control. The on-screen menu appears
- 2 Use **↓** or **↑** to select the option "INSTALLATION" and confirm with **→**
- 3 Use **↓** or **↑** to select the option "TIME/DATE" and confirm with **→**
- 4 Use **↓** or **↑** to select the option "SMART CLOCK". Use **→** or **←** to switch the function off ("OFF") or on ("ON")
- 5 Confirm with **OK**. The display will show "STORED"
- 6 Leave the on-screen menu with **MENU**



Using the TV remote control

With the enclosed multicode remote control you can control the main functions of your TV set. To do this, you must first enter the make of your TV set.



- 1** Find the make of your TV set from the list below and take note of the corresponding remote control code(s)
- 2** Hold down the button  - and enter one of the listed codes with the number buttons 0-9.
- 3** Now you can control your TV set remotely with the following buttons:
 - +  - (Increase / decrease TV volume)
 - TV - /  - (Switch off TV)
 - + TV - (Next / previous TV programme number)

REMOTE CONTROL CODES

Acura	.02	Finlux	.10,13,32	Metz	.34	Shorai	.28
Adyson	.05,20	Firstline	.02,19,20,23,28,31	Mitsubishi	.07,14,16	Siarem	.12
Akai	.18,33	Fisher	.18,20,35	Mivar	.19,27	Siemens	.17
Akura	.21,25	Formenti	.30	Multitech	.02,12,19	Silver	.07
Alba	.02,07,21	Frontech	.23,25	Neckermann	.01	Sinudyne	.12,28
Allorgan	.28	Fujitsu	.10	Nikkai	.05,06,10,19,21,25	Solavox	.05
Amplivision	.20	Funai	.25,28	Nobliko	.12	Sonitron	.18
Amstrad	.02	GEC	.10,20	Nokia	.33,41	Sonoko	.02
Anitech	.02	GPM	.21	Normende	.15	Sonorlor	.18
Arcam	.19,20	Geloso	.02	Oceanic	.33	Sony	.03,04,07
Asuka	.21	Genexxa	.21	Orion	.28,30,31	Soundwave	.38
Audiosonic	.15	GoldStar	.15,20,27	Osaki	.05,10,20,21,25	Standard	.02,20,21
BPL	.26	Goodmans	.07,10,20,29,36	Oso	.21	Sunkai	.28,31
BSR	.28	Gorenje	.35	Osume	.05,10	Susumu	.21
BTC	.21	Graetz	.33	Otake	.29	Tandy	.10,20,21
Basic Line	.02,21	Granada	.10,18,20	Otto Versand	.01,03,07,20,30	Tashiko	.07,20
Baur	.03,33	Grandin	.26	Palladium	.35,38	Tatung	.10,20
Beko	.35	Grundig	.17	Panama	.20,25	Tec	.20,23
Blaupunkt	.17	HCM	.02,26	Panasonic	.24,34	Technema	.30
Blue Sky	.21	Hanseatic	.01,30,33	Pathe Cinema	.19,30	Technics	.24
Blue Star	.26	Hinari	.02,07,21	Pausa	.02	Telefunken	.15
Bondstec	.23	Hisawa	.26	Perdio	.30	Telemeister	.30
Boots	.20	Hitachi	.05,07,08,13,15,20,22	Phase	.05	Teletech	.02
Brandt	.15	Huanyu	.19,36	Philco	.23	Teleton	.20
Britannia	.19	Hypson	.25,26	Philips	.01,36	Tensai	.21,28,29,30
Bush	.02,07,21,26,28,36	ICE	.20,25	Pioneer	.15	Textet	.19,21
CGE	.23	ICeS	.21	Profex	.02,33	Thomson	.15
CS Electronics	.19	ITT	.33	Proline	.31	Thorn	.06,10,33
CTC	.23	Imperial	.23,35,38	Protech	.02,12,20,23,25,38	Tomashi	.26
Carrefour	.07	Inno Hit	.10	Quelle	.03,04,33	Toshiba	.06,07
Cascade	.02	Interfunk	.23,33	Questa	.07	Uher	.30
Cimline	.02	Intervision	.12,20,25	Rank Arena	.07	Ultravox	.12
Clatronic	.23,35	Isukai	.21	Rediffusion	.33	Universum	.13,25,32,35
Condor	.30,35	JVC	.07,09	Rex	.25	Videosat	.23
Contec	.02,07,19	Kaisui	.02,19,20,21,26	Roadstar	.02,21,25,38	Videotechnic	.20
Crown	.02,35,38	Kathrein	.01	SEG	.07,20,25	Visa	.02
Cybertron	.21	Kingsley	.19	SEI	.12,28	Vision	.30
Daewoo	.02,36	Koyoda	.02	Saba	.15	Waltham	.20
Dainichi	.21	Leyco	.10,25,28	Saisho	.02,04,25	Watson	.30
Dayton	.02	Lloytron	.05	Salora	.33	Watt Radio	.12
De Graaf	.18	Luxor	.33	Sambers	.12	Wega	.07
Decca	.10	M Electronic	.02,13,15,20,32,36,41	Samsung	.01,02,20,25,27,35	White Westinghouse	.19,30
Dixi	.02	Magnadyne	.12,23	Sandra	.19	Yoko	.20,25
Dual Tec	.20	Magnafon	.12	Sanyo	.04,07,10,18		
Elite	.21,30	Manesht	.20,25,30	Schaub Lorenz	.33		
Elta	.02	Marantz	.01	Schneider	.21,23,37		
Emerson	.33	Matsui	.02,04,06,07,10,18,20,28	Sei-Sinudyne	.03		
Ferguson	.15	Memorex	.02	Sentra	.06		
Fidelity	.19,33			Sharp	.07,11		
Finlandia	.18,32						

If the codes corresponding to your set do not succeed, please try entering one of the other remote control codes listed.

Optimizing the modulator

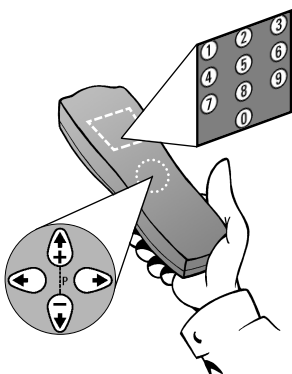
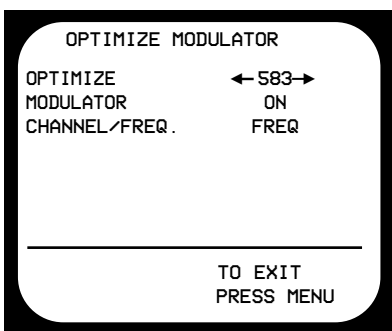
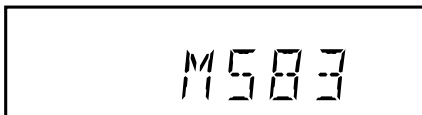
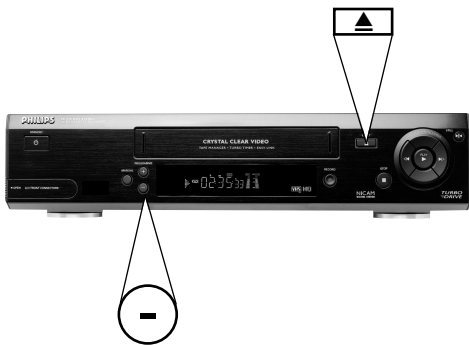
If the TV set and the video recorder are only connected with an aerial cable - rather than with an additional scart cable - it may happen that in certain reception locations the modulator frequency of the video recorder is occupied by a TV channel. As soon as the video recorder is switched on, the reception quality of the TV picture deteriorates. The following steps will show you how to overcome this problem.

What is a modulator?

The purpose of this electronic assembly inside your video recorder is to pass on the picture and sound information read in from the video tape via an aerial cable like a TV signal to the TV set. The modulator frequency determines the frequency range in which these signals are transmitted.



TIP



- 1 Switch the video recorder on and make sure there is no cassette in the video recorder
- 2 Press simultaneously the **EJECT** button ▲ on the front of the video recorder and the button **PROGRAMME-** until the display shows the modulator frequency (e.g. "1583" or "CH35").
- 3 The display shows "M ON". The video recorder will now transmit a test image on this frequency
- 4 Use ↓P- or ↑P+ to select the option "OPTIMIZE" and enter a new frequency with the number buttons 0-9

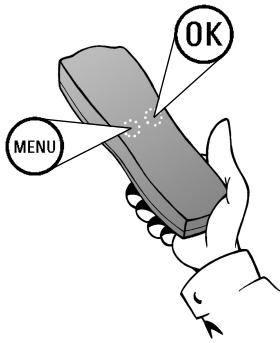
Which modulator frequency should I enter?

You can also make the video recorder search automatically for an appropriate frequency. To do so, simply hold down the button →. As soon as a free frequency has been found, it will be shown in the display.



PROBLEM

- 5 Tune the programme number of your TV set allocated for video use to the new modulator frequency until you see the test image sharply and in colour



- 6 Confirm the new modulator frequency with **OK**.
- 7 Leave the on-screen menu with the **MENU** button

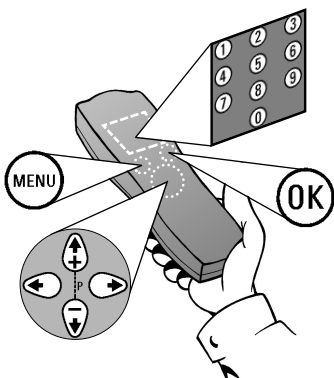
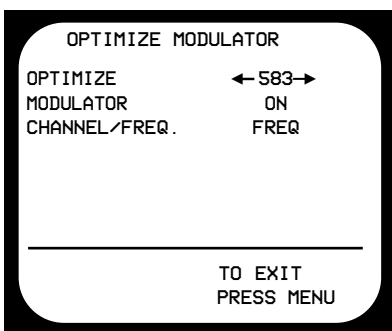
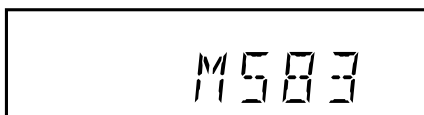
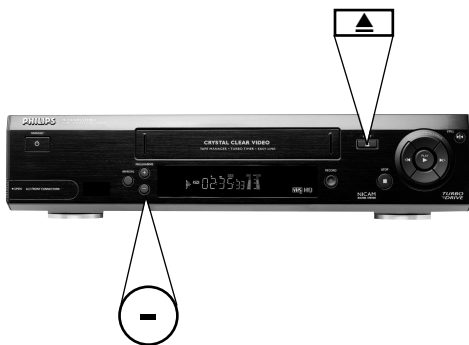


Switching off the modulator




If you have connected the video recorder to the TV set with a scart cable, you can switch off the modulator when there is interference with the picture or sound (see below).

Switching the modulator on / off

If picture and sound interference cannot be removed by optimising the modulator, the integral modulator can be switched off. Warning: this is only possible if you have connected the video recorder to the TV set with a scart cable. It is not possible to operate with the modulator switched off without a scart cable.



- 1 Switch the video recorder on and make sure there is no cassette in the video recorder
- 2 Press simultaneously the **EJECT** button ▲ on the front of the video recorder and the button **PROGRAMME** - until the display shows the modulator frequency (e.g. “M583” or “CH35”)
- 3 The display shows “M ON”. The video recorder will now transmit a test image on this frequency
- 4 Use ↓P- or ↑P+ to select the option “MODULATOR”
- 5 Use → or ← to select the setting “ON” (Modulator on) or “OFF” (Modulator off)
- 6 Confirm with **OK**. The screen will show the message “STORED”. The display shows “M OFF”
- 7 Leave the on-screen menu with the **MENU** button

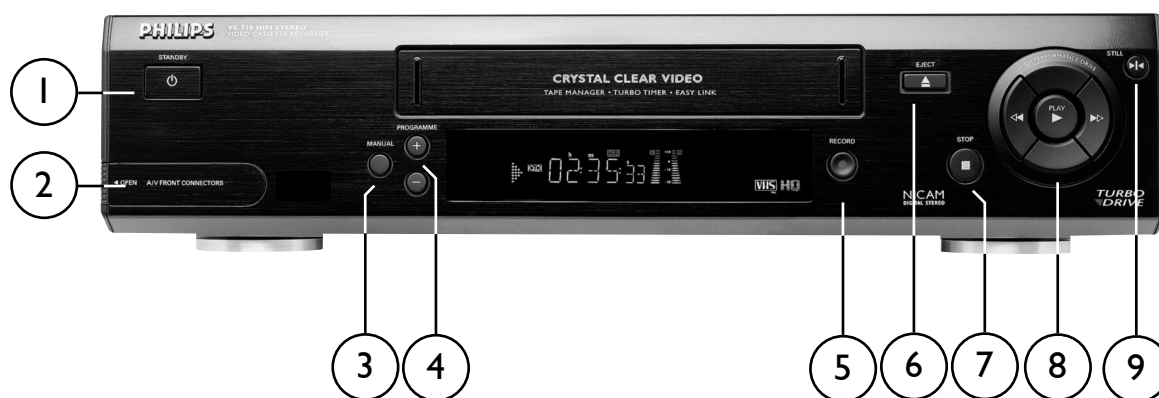
PROBLEM	POSSIBLE CAUSE / SOLUTION
Set no longer reacts when buttons are pressed	<ul style="list-style-type: none"> ✓ The power supply has been interrupted / failed ✓ A programmed recording is running. Interrupt with the Standby button  ✓ Child lock is activated: Switch this function off ✓ Technical interference: Remove the mains plug from the socket and reinsert it
The set is still not reacting, the display shows e.g. "E1000"	<ul style="list-style-type: none"> ✓ Remove the mains plug from the socket, hold down the Standby button  on the front of the video recorder and reinsert the mains plug. When "----" or "E ?" appears in the display you can release . Warning: All data memories of the set (TV channel, time, timer) have been deleted.
Cassette is jammed in video recorder	<ul style="list-style-type: none"> ✓ Do not use force! Briefly remove the mains plug and then reinsert it
Remote control does not work	<ul style="list-style-type: none"> ✓ Aim the end of the remote control at the display of the video recorder ✓ Remove the batteries from the remote control and wait a few seconds before replacing them ✓ Batteries weak or flat: Change the batteries
No playback from video recorder	<ul style="list-style-type: none"> ✓ No recording on the cassette ✓ Select the TV programme number allocated to video operation ✓ Check that the TV channel number allocated to video operation is correct ✓ Cable connection loose/missing: Check the connections
Poor quality playback from video recorder	<ul style="list-style-type: none"> ✓ Check the TV to make sure that the programme number allocated to video operation is correct ✓ Cassette worn/faulty ✓ Tracking not correctly adjusted: Carry out the "Optimizing tracking" function
No recording possible	<ul style="list-style-type: none"> ✓ TV channel not stored or wrongly selected ✓ Cassette with erase protection inserted
Programmed recording not working	<ul style="list-style-type: none"> ✓ Storage position incorrectly/incompletely programmed ✓ Time/date not set correctly ✓ Cassette with erase protection inserted
Picture and/or sound interference in TV reception	<ul style="list-style-type: none"> ✓ Optimize the modulator or switch it off (when using a scart cable) ✓ Check the aerial cable connection
TV reception still not perfect	<ul style="list-style-type: none"> ✓ The Department of Trade and Industry operates a specialist service to help TV licence holders improve reception of BBC and ITC programmes and to prevent interference. If your dealer cannot help, ask at a main Post Office for the booklet "How to improve Television and Radio Reception".

TECHNICAL DATA

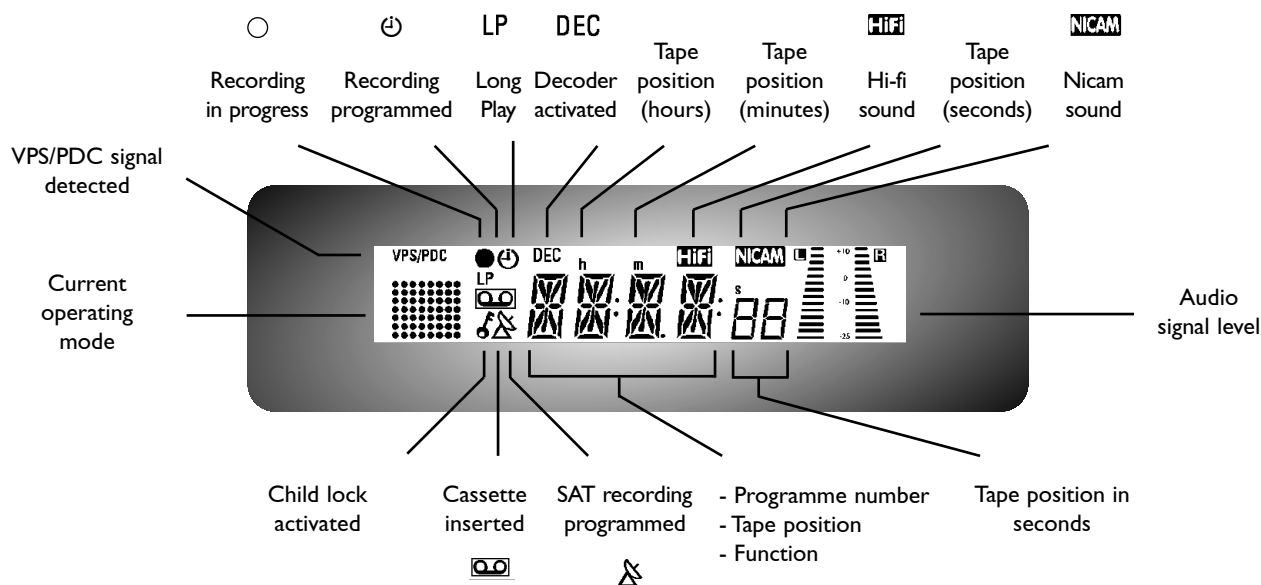
Dimensions in cm (W/H/D):	43,5/9,3/29,0
Power consumption	18 W
Energy consumption (Low Power Standby)	< 4W
Mains voltage:	198-264 V / 50 Hz
Number of video heads:	4
Number of audio heads:	1 linear, 2 FM
Rewind / forward wind speed:	approx. 90 seconds (E180 cassette)
Recording/playback speed (E-240 cassette):	SP (Standard Play) 4 hours, LP (Long Play) 8 hours

Notes

Video recorder / display



- 1 STANDBY/ON
 - Switch set on/off
 - Interrupt function
 - Interrupt programmed recording
- 2 AUDIO/VIDEO IN
 - Connecting the camcorder or video recorder (Programme number "E3")
- 3 MANUAL
 - Manual mute
- 4 PROGRAMME - / +
 - Select previous/next programme no./menu point
- 5 RECORD ●
 - Record
- 6 EJECT ▲
 - Eject tape
- 7 STOP ■
 - Stop tape
- 8 ◀◀
 - In stop or standby mode: Rewind tape
 - During playback: Reverse picture search
- ▶▶
 - In stop or standby mode: Forward wind tape
 - During playback: Forward picture search
- PLAY ▶
 - Play back recorded cassette
- 9 STILL ▶◀
 - Still picture / slow motion



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VR 710/07 ● VR 765/07 ● VR 766/07

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